

ADDRESS: 1631-37 ARCH ST

Proposal: Install mural

Review Requested: Final Approval

Owner: Verizon Communications Inc.

Applicant: Lindsey Rosenberg, Mural Arts Philadelphia

History: 1915; Bell Telephone Building; John Windrim, architect

Individual Designation: 12/12/2008

District Designation: None

Staff Contact: Allyson Mehley, allyson.mehley@phila.gov

BACKGROUND:

This application proposes installing a mural on the one-story east façade of the building at 1631-37 Arch Street, historically known as the Bell Telephone Parkway Building. This wall faces the Horwitz-Wasserman Holocaust Memorial Plaza, the site of the first public Holocaust monument (1964) in the United States. The proposed mural would be the nation's first large scale mural dedicated to Holocaust remembrance and education in a public space.

The limestone wall facing Memorial Plaza is not original to the 1915 Bell Telephone Building. Until the early 1960s, the east wall of 1631-37 Arch Street functioned as a party wall. After the adjacent buildings were demolished in the 1960s, the brick party wall was exposed and later finished with limestone panels. The planned mural will be painted on cloth and installed into recessed panels of the east façade. Prior to this installation, the limestone will be painted with an acrylic primer to prepare for the mural application. After installation, the mural areas will be coated with an acrylic varnish coating.

During the February 2025 Architectural Committee review, Committee members expressed concern about potential moisture trapped between the mural and limestone panels. After the meeting, the applicant provided technical data to supplement their original application. The data indicates that the mural materials will allow water vapor transmission and therefore will not damage the limestone or party wall.

SCOPE OF WORK

- Install a mural on the east façade

STANDARDS FOR REVIEW:

The Secretary of the Interior's Standards for the Treatment of Historic Properties and Guidelines include:

- *Standard 2: The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces and spatial relationships that characterize a property will be avoided.*
 - The alteration of the limestone wall with a mural would not destroy the historic character of the property. The area being impacted is not part of the original design or historic fabric.
- *Standard 10: New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.*
 - If the proposed mural were removed in the future, the historic property and its environment would be unimpaired. Any damage to the non-historic wall could be repaired or replaced.
- *Section 6.15.a. of PHC Rules & Regulations:*
 - *Murals shall not be placed directly upon historic fabric.*
 - *Murals shall not be placed in a manner that obscures historic fabric.*
 - *The Philadelphia Historical Commission, its committees, and staff shall not consider a mural's content as part of its review of any application for a building permit, but may consider size, scale, and relationship to the historic context.*

STAFF RECOMMENDATION: Approval, pursuant to Standards 2 and 10, and Section 6.15.a. of the Historical Commission's Rules & Regulations.

ARCHITECTURAL COMMITTEE RECOMMENDATION: The Architectural Committee voted to recommend denial, pursuant to Standard 10

Proposal for 1631-37 Arch Street, Philadelphia, PA The Bell Building

February 10, 2025

Philadelphia Holocaust Remembrance Foundation in partnership with
Mural Arts Philadelphia is requesting permission to install a mural on the east facing wall
of 1631-1637 Arch Street, Philadelphia, Pa

Contact:

Eszter Kutas

Executive Director

Philadelphia Holocaust Remembrance Foundation

ekutas@philaholocaustmemorial.org

Lindsey Rosenberg

Public Project Specialist

Mural Arts Philadelphia

Lindsey.rosenberg@muralarts.org

Ella Ponizovsky Bergelson

Artist

Ella.poni@gmail.com

Property Owner:

Verizon

Project Description:

The Philadelphia Holocaust Remembrance Foundation (PHRF) maintains, operates, and programs the Horwitz-Wasserman Holocaust Memorial Plaza under an agreement with the City of Philadelphia Department of Parks and Recreation, which owns the site. The Memorial Plaza is the site of the first public Holocaust monument in the country, Nathan Rapoport's Monument to Six Million Jewish Martyrs, installed in 1964, and it continues to serve as a sacred place of mourning and remembrance for those who lost loved ones in the Holocaust. Fifty years later, PHRF led the creation of a Memorial Plaza surrounding the original Monument, which now includes a range of interpretive features. Since its completion, the Memorial Plaza has welcomed more than 55,000 visitors to learn and reflect about the Holocaust.

Not long after the completion of the Plaza, PHRF decided to explore the commissioning of a mural on the large blank wall of a Verizon building adjacent to the site. This would be the nation's first large-scale mural dedicated to Holocaust remembrance and education in a public space.

In 2021, PHRF invited Mural Arts Philadelphia (MAP) to collaborate on the process. Due to the sensitive and complex nature of the project, as well as the mural's prominent location, the partner organizations first assembled a group of subject matter experts to articulate project goals, lead the artist selection process and oversee the artist's design process. After much project planning, the partner organizations released an international call for artists through an RFQ in May 2023. Following an over year-long artist selection process, which included reviewing 54 applications, multi-stage interviews, stakeholder meetings, site visits, and the review of preliminary concept proposals from four finalists, in the Fall of 2024 PHRF and MAP proudly announced the selection of international artist Ella Ponizovsky Bergelson to bring the mural to life.

During the winter of 2024 and 2025, the partner organizations hosted three community events for the public to get to know Ella and her plans for the mural, and for Ella to learn more about the Philadelphia community. More than 210 people participated in these public meetings with the artist and more than 100 people completed forms that asked them to reflect on their personal experiences and memories from which Ella will draw inspiration as she develops her final design in the coming months.

The proposed artwork was also developed specifically and effectively for this site in terms of its spatial strategy, composition, and color. The wall is not flat; it is punctuated by a series of ornamental columns represented in relief. Ella's proposal would occupy the spaces between the columns, heightening the effect of looking out into an adjacent space. The composition is constructed as weaving lines of text, with a vanishing perspective, that reinforces the perception that the space expands far beyond the wall. The Memorial Plaza

receives limited direct sunlight, so the simple black–orange color pallet creates a vivid contrast and brightness in the space. Overall, the impression is of a landscape that is viewed at sunset. As such, it can be appreciated with great impact even though it will be placed behind a row of small trees.

The owner of the wall, Verizon, is fully updated on and supportive of the project and will enter into a wall lease agreement with PHRF and MAP once the design was finalized. Philadelphia Parks & Recreation will provide a letter of support once the project is in its final review stage. Maintenance of the mural, including preventing or correcting incidents of vandalism or graffiti will fall under the shared responsibility of MAP and PHRF that the parties have already agreed to. This mural is entirely privately funded through donations made to PHRF and MAP specifically for this project.

Timeline:

2021-2022: Conversations with PHRF and Mural Arts
2023: Public Launch of the Project with Marty Moss-Coane and James Young
International search for artist
2024: Artist, Ella Ponizovsky Bergelson proposal was selected
Contract between PHRF/MAP/Artist
Press Release
Community Meetings Began
Presentation to Parks and Recreation
2025: Final Community Meeting
In progress: Art Commission Concept Review 2/12
Design Process
Historic Commission Hearing
Finalizing contract with Verizon
Art Commission Final Review
Installation (late summer 2025)
Dedication (fall 2025)

Proposed Mural Location
1631-1637 Arch Street
East Wall of Bell Building facing Holocaust Memorial



Images Provided by the Historic Commission



Aerial photograph of newly constructed Bell Telephone Building. Date not known.

View of the Bell Building North Facing



Car showroom on the parcel that would become the Holocaust Memorial Park. Photograph taken April 1927

magenta line denotes party wall between Bell and the Edwin B. Jackson car showroom that would be removed in 1966 to make way for the Holocaust Memorial Park



Mural will be painted within the natural occurring insets of the facade

Installation of Mural

- Mural painted with acrylic mural paint on polytab non-woven medium cloth (primed with Sherwin Williams Prep-Rite acrylic primer) by artist in studio
- Prepare wall surface with layer of Sherwin Williams Prep-Rite acrylic primer which prepares the wall for mural application
- Install painted polytab non-woven medium cloth using a boom lift or swing stage (all installers will be lift certified), and adhered using Golden Paintworks Mural Adhesive Gel (clear acrylic gel medium)
- Seal mural using Golden Paintworks MSA varnish coating (acrylic), protects the mural from UV rays and ensures longevity

*At this time we do not plan on using the anti-graffiti coating. We have found that the MSA Varnish allows us to remove potential graffiti and touch ups.

Spec Sheets on following pages:

1. Polytab Non Woven Medium Cloth
2. Golden Paintworks: Mural Paints SDS
3. Golden Paintworks: Mural Paints TDS
4. Golden Paintworks: MSA Mural Varnish 2/UVLS
5. Golden Paintworks: Mural Adhesive Gel TDS
6. Sherwin Williams: PrepRite Blocker TDS
7. Sherwin Williams: PrepRite Blocker SDS



QST Industries, Inc. /

15 West 36th Street • New York, New York 10018
Phone: (212) 764-2828 • FAX: (212) 575-2352

PT 20R

Characteristics

This grade is a 2.00 oz/yd² wet laid nonwoven fabric, composed of synthetic and cellulose fibers, treated with a chemical binder.

Applications

This product can be used in a number of different applications including, but not limited to, interlining and waistband.

Benefits

This is a dimensionally stable durable fabric with excellent web uniformity that meets the laundering, dry cleaning, stitch holding, and hand requirements of the apparel industry.

Physical Properties

Basis Weight	68.0 gsm
Dry Grab Tensile Strength MD	7,700 grams
Dry Grab Tensile Strength CD	5,250 grams
Thickness	260 microns
Laundering	> 5 cycles
Dry Cleaning	> 5 cycles

Safety Data Sheet

Section 1 - Identification

**GPW GOLDEN
PAINTWORKS®**

MURAL PAINTS

Adhesive Gel / CPWWMG01

GOLDEN ARTIST COLORS, INC.
188 BELL ROAD
NEW BERLIN, NY 13411

Phone: (607)847-6154
In US only: (800)959-6543

Prepared by: Regulatory Department
Product Use: Adhesive
Not recommended for: Use by children

Section 2 - Hazards Identification

GHS Ratings:

There are no GHS ratings that apply to this product at this time

GHS Hazards

There are no GHS hazards that apply to this product at this time

GHS Precautions

There are no GHS precautions that apply to this product at this time

Section 3 - Hazardous Composition

Chemical Name	CAS number	Weight Concentration %
AMMONIUM HYDROXIDE (28%)	1336-21-6	0.10% - 1.00%

Section 4 - First Aid

Inhalation: Remove subject to fresh air. Give artificial respiration if breathing has stopped. Seek medical attention.

Eye: Flush with water for 15 minutes. Remove contact lenses, if present and easy to do so. If symptoms develop and persist seek medical attention.

Skin: Wash with soap and water. Remove contaminated clothing. Seek medical attention for irritation.

Ingestion: If swallowed, dilute by giving 2 or more glasses of water to drink ONLY IF CONSCIOUS! Do not induce vomiting. Seek medical attention IMMEDIATELY.

Section 5 - Fire Fighting

Flash Point: >100 C (212 F)

LEL: N/A

UEL: N/A

Extinguishing Media: Water, Foam, Carbon Dioxide, Dry Chemical, Powder. Do NOT use high pressure Water Spray, as this may spread the fire.

Unusual Fire and Explosion Hazards: Closed containers may rupture via pressure build-up when exposed to fire or extreme heat. During a fire, irritating and highly toxic gases and/ or fumes may generate during combustion or decomposition.

Hazardous Byproducts: Combustion will yield oxides of carbon and nitrogen, as well as, monomer fume.

Fire Fighting Procedures: Move containers promptly out of fire zone. If removal is impossible, keep containers cool with water spray. Remain upwind and avoid breathing smoke or fumes.

Special Precautions: Wear self-contained breathing apparatus and full protective gear.

Section 6 - Release

Personal precautions, protective equipment and emergency procedures: Appropriate protective equipment must be worn when handling a spill of this material. See Section - 8 Exposure Control for recommendations. If exposed to material during clean-up operations, see Section 4 - First Aid for actions to follow.

Environmental precautions: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Methods and materials for containment and clean-up: Evacuate personnel to safe areas. Ventilate the area to dissipate vapor. Floor may be slippery; use care to avoid falling. Soak up spills with inert absorbent material. Sweep up and collect in suitable container for disposal. Avoid breathing vapor.

Section 7 - Handling

Precautions and safe handling: Use only in well-ventilated areas. Avoid inhalation of vapors/spray and contact with skin and eyes. Wear appropriate personal protective equipment. Read label before use.

Conditions for safe storage: Store in a cool, well-ventilated place. Keep out of the reach of children.

Section 8 - Exposure Control

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
AMMONIUM HYDROXIDE (28%) 1336-21-6	TWA 35 mg/m ³ PEL, 50 ppm	TWA 18 mg/m ³ TLV, 25ppm	Not Established

Engineering Controls: Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of possible vapor. Provide easy access to water supply, eye wash or emergency shower.

General Hygiene Considerations: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Private clothes and work clothes should be kept separate.

Personal Protective Equipment: Wear approved safety glasses or goggles if needed. Gloves are recommended if there is a risk of continual hand exposure.

Section 9 - Properties

Properties listed are typical and not to be used as a specification.

Appearance: Liquid	Odor: Slight Amine
Vapor Pressure: Not available	Odor threshold: Not available
Vapor Density: Not available	pH: 8.7 - 9.0

Density: 1.07 Freezing point: Not available Boiling range: Not available Evaporation rate: Not available Explosive Limits: Not available Auto ignition temperature: Not available Viscosity: 65k - 80k cPs	Melting point: Not applicable Solubility: Soluble Flash point: 100°C, 212°F Flammability: Not applicable Partition coefficient (n-octanol/water): Not available Decomposition temperature: Not available VOC g/l (less Water) 156
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Section 10 - Reactivity

Under normal conditions this mixture is considered to be:

STABLE

Materials that are known to be incompatible with this mixture and should be avoided, if applicable:

Not Applicable

Risk of hazardous decomposition:

Not Applicable

Hazardous polymerization will not occur.

Section 11 - Toxicology

Mixture Toxicity

Inhalation Toxicity LC50: 171mg/L

Component Toxicity

1336-21-6 AMMONIUM HYDROXIDE (28%)
Oral LD50: 350 mg/kg (RAT)

Possible routes of entry or exposure:

Not Applicable

Possible target organs of exposure to this mixture:

Not Applicable

Effects of Overexposure

Carcinogenicity: This mixture as a whole has not been tested to determine its carcinogenic properties. The components of this mixture that are reported as possible or known carcinogens are as follows:

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
None			Not Applicable

Acute Toxicity: May cause central nervous system effects.

Section 12 - Ecological Toxicity

Ecotoxicity: This mixture as a whole has not been tested to determine its ecological toxicity. The components of this mixture with documented ecological data are as follows:

Component Ecotoxicity

Section 13 - Disposal

Disposal Instructions: Contract with a disposal operator licensed by the Law on Disposal and Cleaning. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not discharge into drains, water

courses or onto the ground. Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 14 - Transport

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing</u>	<u>Hazard Class</u>
DOT	Not Regulated			
IATA	Not Regulated			
IMDG	Not Regulated			

Section 15 - Regulatory

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

Not Applicable

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
AUSTRALIA	AICS- Australian Inventory of Chemical Substances	Yes
CANADA	Domestic Substances List (DSL) and Non-Domestic	Yes
EUROPE	European Inventory of Existing Commercial Chemical	Yes
EUROPE	European List of Notified Chemical Substances	No
JAPAN	Inventory of Existing and New Chemical Substances	No
CHINA	Inventory of Existing Chemical Substances in China	Yes
KOREA	Korean Existing Chemicals Inventory (KECI)	Yes
NEW ZEALAND	New Zealand Inventory of Chemicals (NZIoC)	Yes
PHILLIPPINES	Philippine Inventory of Chemicals and Chemical	Yes
USA	Toxic Substances Control Act (TSCA) Inventory	Yes

Section 16 - Other Information

While Golden Artist Colors, Inc. believes the data set forth herein is accurate as of the date hereof, Golden Artist Colors, Inc. makes no warranty with respect to the accuracy of this data and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation, and verification.

Date revised: 2019-06-10
Date Prepared: 6/10/2019

Reviewer Revision 2

Mural & Theme Paints

CPWTP01 – CPWTP83

Technical Data Sheet – Page 1 of 3

Description

Golden Paintworks® Mural & Theme Paints are formulated using advanced, exterior pigment and resin technologies, to create an array of clean, intense, lightfast colors for mural work, painting and enhancing themed facades, rock work and entertainment venues.

Mural & Theme Paints are suitable for exterior and interior applications. All Mural & Theme Paint colors can be inter-mixed to create an endless array of fade resistant, custom colors. Mural & Theme Paints may be diluted with water or an acrylic medium for use as washes or glazes in a wide range of techniques and are compatible with most waterborne products.

Key Features

- Strong, opaque, vibrant colors
- Ready to use
- Thins easily for more transparent colors
- Exterior colorants selected for advanced lightfast qualities
- Single component, 100% acrylic waterborne formulation
- < 50 g/l VOC content. Complies with VOC regulations in all US jurisdictions
- Meets the criteria for LEED Credit 4.2 (Low Emitting Materials – Paints and Coatings)
- Water clean up

Packaging

Available in 16 fl. oz. Jar and 128 fl. oz. / 3.78 l Pail

Surface Preparation

Golden Paintworks Mural & Theme Paints may be applied to most surfaces suitable for exterior latex paint, including drywall, wood, masonry, plastics and metal if these substrates are cleaned, prepared, and primed. Follow industry standard practices and procedures for preparing surfaces for the application of water-based architectural acrylic coatings.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or cracked paint should be scraped and sanded to a smooth, sound surface (See warning below). Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer/sealer.

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as properly fitted respirator (NIOSH approved) and- proper containment and cleanup. For more information, call the National Lead Information Center at –LEAD (in US) or contact your local health authority.



WARNING! May cause an allergic skin reaction.

Use in accordance with safe handling practices. These include: *Avoid eye and skin contact. *Wash hands after use. *When spraying or sanding use a NIOSH approved respirator. *Provide adequate ventilation.
KEEP FROM REACH OF CHILDREN.

Application:

- Stir contents before use.
- Brush, roller or spray apply.
- Apply when the substrate and ambient air temperature is between 50°F & 90°F. Ideal range is 65°F & 75°F.
- Ready to use; may be thinned with water for more transparent effects.
- May be thinned with water, up to 10:1 (10 parts water to 1 part paint) for color washes.
- A protective clear coating is recommended for dilutions greater than 1:1 or any exterior application.
- For exterior or interior use, unless specifically noted as interior only.
- Allow 1-2 hours drying time between coats.
- Testing your process and technique before applying is recommended.

Tools:

Brush: A high-quality nylon/polyester brush is suggested.

Roller: Use a high quality 3/8" - 3/4" nap synthetic cover.

Spray equipment:

AIRLESS

No thinning is required, but product may be reduced with water as desired.

- GRACO Mark V: 2,400 – 2,600 PSI. 517 or 515 tip.
- Titan 44i, Latex (high) tip.

HVLP/Cup Gun:

Reduce 20% - 40% with water to adjust for proper atomization.

- Titan TS 40P, 17/000 tip
- Vapor 1900, 1.4 mm tip, 40 psi

When spraying, wear eye protection and particulate respirator.

Coverage: Highly dependent on application technique and number of layers. Approx. 300-400 sq. ft. / gal.

Dry Time: @ 50% RH, 77°F: Touch 30 minutes. Recoat 1-2 hours.

- Air movement and exchange will assist in proper drying.
- Cold weather & high humidity will slow down cure time.
- A drying time of 12 – 24 hours is recommended before the application of protective clear coatings.

Clean Up

Clean your skin and equipment immediately after use with soap and warm water. Dispose of as latex paint.

Storage

- Store in a cool/dry location @ temperatures between 40°F & 90°F.
- Do not allow material to freeze or be exposed to temperatures exceeding 120° F for extended periods.

Mural & Theme Paints
CPWTP01 - CPWTP83

		Physical/Performance Property & Test Method					
		Weight per Gallon (in lbs.)	Specific Gravity	Typical Weight Solids	Typical Volume Solids	Viscosity	Gloss/Sheen
		Gardner Cup	Calculated	Calculated	Calculated	Brookfield RVT (spindle 6, 100 rpm)	Glossmeter
Item #	Description						
CPWTP01	Burnt Sienna	9.929	1.19	45.7%	34.6%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP02	Burnt Umber	9.774	1.17	45.6%	35.6%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP03	Carbon Black	9.164	1.10	36.6%	29.3%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP04	Chrome Oxide Green	10.289	1.24	47.3%	31.0%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP06	Dioxazine Purple*	9.264	1.11	42.6%	34.3%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP07	Hansa Yellow Opaque	9.225	1.11	42.5%	35.6%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP08	Phthalo Blue GS	9.338	1.12	43.8%	33.5%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP09	Phthalo Green BS	9.436	1.13	44%	32.8%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP10	Pyrrrole Red	9.237	1.11	39.9%	32.8%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP11	Quinacridone Magenta*	9.27	1.11	42.8%	35.3%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP12	Raw Sienna	10.001	1.20	45.5%	33.9%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP13	Raw Umber	10.04	1.21	45.1%	33.3%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP14	Titanium White	10.811	1.30	51.4%	36.4%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP15	Ultramarine Blue*	9.853	1.18	47.2%	36.7%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP16	Daylight Blue	10.833	1.30	52.6%	38.1%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP17	Pyrrrole Orange	9.241	1.11	40.3%	33.2%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP18	Yellow Oxide	10.006	1.20	44.8%	33.0%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP19	Transparent Red Oxide	9.467	1.13	43.2%	32.7%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP20	Transparent Yellow Oxide	9.503	1.14	43.4%	32.8%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP21	Transparent Brown Oxide	9.465	1.13	43.1%	32.5%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP22	Bismuth Vanadate Yellow	9.849	1.18	44.6%	33.9%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP23	Pyrrrole Red Light	9.217	1.11	40.6%	33.7%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP24	Pyrrrole Red Dark	9.221	1.11	40.5%	33.5%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP25	Sap Green Hue	9.387	1.13	43.4%	33.2%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP26	Light Yellow	10.357	1.24	48.5%	35.4%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP27	Medium Yellow	9.863	1.19	44.6%	33.9%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP28	Yellow Orange	9.744	1.17	43.9%	33.8%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP29	Medium Green	9.511	1.14	43.9%	34.0%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP30	Yellow Green	9.736	1.17	44.4%	34.2%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP31	Light Yellow Green	9.844	1.18	44.5%	33.7%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP32	Hookers Green Hue	9.327	1.12	40.1%	38.5%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP34	Quinacridone Violet	9.359	1.12	42.5%	34.8%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP35	Crimson	9.205	1.11	40.0%	33.1%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP36	Light Blue GS	10.756	1.29	51.1%	36.2%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP37	Royal Blue	9.373	1.13	41.0%	32.9%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP38	Purple	9.807	1.18	45.8%	35.7%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP39	Paynes Gray	9.253	1.11	39.7%	32.3%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP60	Iridescent Pearl	9.699	1.17	47.3%	38.1%	1,200 – 2,500 cP	50 - 70 (85 degrees)
CPWTP61	Iridescent Silver	9.699	1.17	47.3%	38.1%	1,200 – 2,500 cP	50 - 70 (85 degrees)
CPWTP62	Iridescent Gold	9.733	1.17	48.0%	38.5%	1,200 – 2,500 cP	50 - 70 (85 degrees)
CPWTP63	Iridescent Copper	9.312	1.12	42.9%	35.2%	1,200 – 2,500 cP	50 - 70 (85 degrees)
CPWTP64	Iridescent Bronze	9.264	1.11	36.4%	29.2%	1,200 – 2,500 cP	50 - 70 (85 degrees)
CPWTP76	Moss Yellow	9.417	1.13	43.0%	34.9%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP77	Phthalo Blue RS	9.361	1.12	43.7%	36.6%	2,500 – 4,500 cP	5 - 25 (85 degrees)

		Physical/Performance Property & Test Method					
		Weight per Gallon (in lbs.)	Specific Gravity	Typical Weight Solids	Typical Volume Solids	Viscosity	Gloss/Sheen
		Gardner Cup	Calculated	Calculated	Calculated	Brookfield RVT (spindle 6, 100 rpms)	Glossmeter
Item #	Description						
CPWTP79	Transparent Carbon Black	9.288	1.11	40.6%	32.7%	2,500 – 4,500 cP	5 - 25 (85 degrees)
CPWTP80	Iridescent Statuary Bronze	9.248	1.11	34.8%	27.1%	1,200 – 2,500 cP	50 - 70 (85 degrees)
CPWTP81	Iridescent Pale Gold	9.455	1.13	37.7%	29.2%	1,200 – 2,500 cP	50 - 70 (85 degrees))
CPWTP82	Iridescent Champagne	9.635	1.15	39.5%	29.8%	1,200 – 2,500 cP	50 - 70 (85 degrees)
CPWTP83	Transparent Black Oxide	9.652	1.16	45.0%	34.0%	2,500 – 4,500 cP	5 - 25 (85 degrees)

Physical/Performance Property

Test Method

Typical Result

Consistency/Appearance	Visual Observation	Liquid
pH (initial)	pH Meter	8.7 – 9.3
Odor	Subjective	Slight ammonia
Base Polymer	Known	100% Acrylic
Flash Point	Closed Cup	None (water based)
Freeze/Thaw Stability	Lab Test	Pass: 5 Cycles
Shelf Life	Lab Test	Expect 3 Years @ 77°F
Storage Conditions	Recommendation	Cool/Dry, Avoid Freezing/Heat
Application Temperature	Recommendation	50°F to 90°F (best results)
Paintability	Recommendation	Excellent @ 1 - 2 hrs. drying
Application Thinner	Recommendation	Thins with water
Clean Up	Recommendation	Warm, soapy water
Coverage Per Gallon	Recommendation	Highly dependent on application technique and substrate. Approx. 300-400 sq. ft. / gal.

* Dioxazine Purple, Quinacridone Magenta and Ultramarine Blue are not recommended for exterior applications, if used in this manner a UV protective clear topcoat is required.

ASTM D522 Standard Test Methods for Mandrel Bend Test: Golden Theme paints were tested in accordance with this standard, using aluminum test panels, primed with alkyd primer, followed by 10mil paint application, tested at 72F/45% RH, and passed with no indications of any cracking on the conical mandrel.

Environmental & Transportation Information

VOC: < 50 g/l
Not RCRA Hazardous for disposal
Not Dangerous Goods for shipping via any mode

SEE SDS FOR ADDITIONAL INFORMATION

LIMITED WARRANTY

In the unlikely event of product failure, and determination by GOLDEN that product did not meet intended quality or published specifications, GOLDEN will, at its discretion, either replace the product or refund the purchase price as the customer's sole remedy. GOLDEN expressly disclaims liability for incidental and consequential damages, to the extent allowed by law.

TDS Number: TDSCPWTP01-83

Date of Issue: April 2019 (Revised October 2023)

GPW Mural Paints
MSA Mural Varnish w/UVLS
CPWMV04 = Semi-Gloss, CPWMV05 = Satin

Technical Data Sheet – Page 1 of 3

Description

MSA Mural Varnish w/UVLS, is a Mineral Spirit based Acrylic resin system (with Ultraviolet Light Stabilizers) that dries to a tough, yet flexible protective finish, protecting the mural against dust, dirt, marring and environmental conditions. The UVLS system provides increased resistance to the harmful effects of ultraviolet radiation exposure, helping to ensure the longevity of the mural colors over time. VOC compliant. No thinning required. Available in Semi-Gloss and Satin.

Key Features

- A clear film offering protection against environmental concerns such as ultraviolet light, dirt, and moisture.
- Resistant to yellowing.
- Suitable for exterior as well as interior application.

Application Preparation

- Stir well immediately before use, no thinning required. Stir with a metal or wood stirring stick until varnish appears homogeneous, approximately 30-60 seconds.
- Remove any dust or dirt that may be on the mural surface before applying the varnish.

Brush Application

- Use a soft synthetic brush that loads well, holds its shape, and leaves minimal brushstrokes.
- One to two coats are required. More may be added if needed.
- Apply varnish as evenly and as smoothly as possible. Avoid heavy build-ups.
- Maintaining a wet edge when overlapping will yield the most even finish.
- Any visible brushstrokes can be minimized by brushing subsequent coats in the same direction as the prior coat.
- Utilizing the textures and borders within the mural can also assist in creating less visible brushstrokes. For example, mimicking brushstrokes or using some of the visual edges of the mural can reduce the appearance of brushstrokes.
- Do not over work.

Recommended Application Method

Work in a team, with one assigned to apply the product to the surface, and the other assigned to work on details and hiding brushstrokes to finish the application.

Roller Application

- Although the MSA Mural Varnish can be roller applied, caution is advised as rough surfaces can generate foam which can become trapped as the product dries, resulting in a haze on the surface of the mural that will not self-resolve. If applying with a roller, use as low a nap as possible for the surface to which the varnish is being applied.

Roller Application, continued

- Consider a roller and brush combined approach, using the roller for faster application of the product to the wall, followed immediately by a brush over to ensure an even application with reduced opportunity for foam.
- Do not overwork.

Spray Application is Not Supported due to VOC regulations.

Coverage: 350-500 sq. ft. per gallon if applied by brush, depending on surface texture and absorbency.

Recoat Time: 3-6 hours, depending on atmospheric conditions.

Drying/Curing Time:

- Usually becomes tack-free & suitable for recoating after 3-6 hours.
- Most curing will occur within two weeks.
- Air movement and exchange will assist in proper drying.
- Cold weather & high humidity will slow down cure time.

Future Maintenance and Restoration

Performance of the varnish is greatly dependent on the location of the mural and the degree of exposure to the elements. Varnished murals should be reviewed annually and a re-application of the varnish considered every 3-5 years due to the potential for natural erosion from the elements.

Clean Up

Clean all equipment immediately following application. GOLDEN MSA Mural Varnish should be cleaned from tools with solvent; CPWMV02 MSA Mural Formula Solvent is recommended. Following the use of solvent, clean with a soapy water wash and clear water rinse. Consult with local authorities for methods of disposal.

Storage

- Store in a cool/dry location at temperatures between 40° F & 90° F.
- Do not allow material to freeze or be exposed to temperatures exceeding 120° F for extended periods.

Packaging

Available in two sizes: 1 gal. / 3.78 l can and 4 gal. / 15.1 l pail.

For questions regarding this product, contact the GOLDEN Materials and Applications Department: help@goldenpaints.com.

GPW Mural Paints
MSA Mural Varnish w/UVLS
CPWMV04 = Semi-Gloss, CPWMV05 = Satin

Technical Data Sheet – Page 2 of 3



WARNING: Flammable liquid and vapor. Causes mild skin irritation. May cause an allergic skin reaction. Causes eye irritation. Suspected of causing cancer. Keep away from heat/sparks/open flames/hot surfaces – No smoking. Keep container tightly closed. Avoid breathing fume/vapors/spray. Wash hands with soap and water thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. Wash contaminated clothing before reuse. FIRST AID: IF ON SKIN: Wash with soap and water. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. IF exposed or concerned: Get medical advice/attention. If skin irritation or a rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

If you have any questions or concerns regarding the proper use or application, please call or email the Golden Materials and Applications Department: help@goldenpaints.com / (800) 959-6543.

CPWMV04 MSA Mural Varnish w/UVLS (Semi-Gloss)

<u>Physical/Performance Property</u>	<u>Test Method</u>	<u>Typical Result</u>
Weight per Gallon (in lbs)	Gardner Cup	8.05
Specific Gravity	Calculated	0.96
Typical Weight Solids	Calculated	25.8%
Typical Volume Solids	Calculated	23.2%
Consistency/Appearance	Visual Observation	Slightly yellow translucent liquid
pH (initial)	pH Meter	NA
Viscosity	Brookfield RVT	90 – 300 cP (spindle 4, 100 rpms)
Odor	Subjective	Distinct aromatic odor
Gloss/Sheen (85°)	Glossmeter	45-65
Base Polymer	Known	Butyl methacrylates
Flash Point	Closed Cup	43°C/109°F (ASTM D-56)
Freeze/Thaw Stability	Lab Test	NA
Shelf Life	Lab Test	Expect 2 Years at 77° F
Storage Conditions	Recommendation	Cool/Dry, Avoid Freezing/Heat
Application Temperature	Recommendation	65° F to 75° F/18°C to 24°C (best results)
Paintability	Recommendation	Use only as topcoat, do not paint over
Clean Up	Recommendation	CPWMV02 MSA Mural Formula Solvent (VOC Compliant)
Coverage Per Gallon	Recommendation	350 – 500 sq. ft. / gal

GPW Mural Paints
MSA Mural Varnish w/UVLS
CPWMV04 = Semi-Gloss, CPWMV05 = Satin

CPWMV05 MSA Mural Varnish w/UVLS (Satin)

Physical/Performance Property	Test Method	Typical Result
Weight per Gallon (in lbs)	Gardner Cup	8.07
Specific Gravity	Calculated	0.97
Typical Weight Solids	Calculated	25.3%
Typical Volume Solids	Calculated	22.3%
Consistency/Appearance	Visual Observation	Slightly yellow translucent liquid
pH (initial)	pH Meter	NA
Viscosity	Brookfield RVT	90 – 300 cP (spindle 4, 100 rpms)
Odor	Subjective	Distinct aromatic odor
Gloss/Sheen (85°)	Glossmeter	14-20
Base Polymer	Known	Butyl methacrylates
Flash Point	Closed Cup	43°C/109°F (ASTM D-56)
Freeze/Thaw Stability	Lab Test	NA
Shelf Life	Lab Test	Expect 2 Years at 77° F
Storage Conditions	Recommendation	Cool/Dry, Avoid Freezing/Heat
Physical/Performance Property	Test Method	Typical Result
Application Temperature	Recommendation	65° F to 75° F/18°C to 24°C (best results)
Paintability	Recommendation	Use only as topcoat, do not paint over
Clean Up	Recommendation	CPWMV02 MSA Mural Formula Solvent
Coverage Per Gallon	Recommendation	350 – 500 sq. ft. / gal

Environmental & Transportation Information

VOC: < 500 g/l

Disposal: This material and its container must be disposed of as hazardous waste. Do not discharge into drains, water courses or onto the ground. Dispose of contents/container in accordance with local/regional/national/international regulations.

Agency	Proper Shipping Name	UN Number	Hazard Class	Packing Group	Additional Shipping Information
DOT	PAINT	1263	3	III	Marine Pollutant
IATA	PAINT	1263	3	III	Environmental Hazard
IMDG	PAINT	1263	3	III	Marine Pollutant

SEE SDS FOR ADDITIONAL INFORMATION

LIMITED WARRANTY

In the unlikely event of product failure, and determination by GOLDEN that product did not meet intended quality or published specifications, GOLDEN will, at its discretion, either replace the product or refund the purchase price as the customer's sole remedy. GOLDEN expressly disclaims liability for incidental and consequential damages, to the extent allowed by law.

TDS Number: TDSMV04

Date of Issue: March 20, 2024

DISCLAIMER While we believe the above information is accurate, WE MAKE NO EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, and we shall in no event be liable for any damages (indirect, consequential, or otherwise) that may occur as a result of a product application.

Golden Mural Paints
Mural Adhesive Gel
CPWMG01-F

Technical Data Sheet – Page 1 of 2

Description

CPWMVG01-F Mural Adhesive Gel is a permanent, non-removable coating used to adhere murals painted on non-woven fabric to a properly prepared wall. Mural Adhesive Gel promotes successful adhesion to a variety of surface textures for interior or exterior murals.

Key Features

- Thick, easily spreadable gel with great working consistency.
- Can be thinned with water to accommodate a variety of surface textures and application methods.
- Adheres absorbent cloth surfaces such as linen, canvas (interior use only), and non-woven materials such as “parachute fabric” to prepared substrates.
- Creates a bond to secure murals onto primed rigid surfaces.
- Dries to a translucent, glossy finish.
- Comes in a 5 gallon bucket for convenient use on large scale projects.

Utility for the Muralist

Many muralists will complete elements of the mural off-site on prepared fabric for large exterior or interior mural projects to incorporate into the final composition on-site. These may be sectioned off into smaller, workable sizes and pieced together into a whole on-site. Mural Adhesive Gel makes this off-site to on-site work possible.

Application Recommendation

Apply a layer to the back of the mural fabric with trowel, brush, or roller. Apply product generously striving for an even thickness. Depending on the texture of the wall, the application method may require a different approach. On heavily textured surfaces, such as a masonry wall, the Mural Adhesive Gel may need to be applied directly to the wall to fill in voids or deep crevices that would otherwise create a gap between the mural fabric and the substrate.

Hang the mural, tacking lightly at the corners to keep in place. Starting at the center of the mural fabric, lightly press the canvas to the surface, repositioning as needed before product dries. Using a clean squeegee or bondo spreader, press from the center out toward the edges of the mural, smoothing out air bubbles or excess product. Do not over remove product from underneath the mural fabric.

Use a damp cloth to wipe excess product from the outside edges of the mural to maintain clean edges. Repeat the process on additional sections as needed with a slight overlap of material components.

Allow mural to dry 12 to 24 hours before painting over the attached area. The acrylic will shrink as it dries which will result in some conformity to the supporting wall beneath.

Application Recommendation Continued

Apply when the substrate and ambient air temperature is between 50°F & 90°F. Ideal range is 65°F & 75°F. High heat may cause blistering and cold temperatures may affect curing. Note: Exterior murals will be damaged by persistent moisture or running water from drainage. When preparing to attach a mural to a wall, properly prepare the surface to mitigate any ongoing moisture concerns.

Thinning Mural Adhesive Gel

Mural Adhesive Gel is intentionally made thick to promote adhesion on textured surfaces. A thicker layer of product applied with a spatula or trowel will allow more product to make contact with crevices in a surface that has more texture. For surfaces with less texture, the product may be thinned with water to desired consistency for application with brush or roller. Start with a 10% addition of water and stir gently until mixture is homogenous. There should be no clumps in the mixture, sticking to the sides and bottom of the mixing container. Test application before adding more water and do not exceed a 30% addition of water as this may affect adhesion properties.

Suggested Starting Ratios

- For spatula or trowel applications use at full strength.
- For brush and roller application start with 10% additions of water
- Not recommended for spray application.

Coverage: 50 - 225 sq. ft. / gal

Recoat Time: 12 to 24 hours before applying paint.

Clean Up

Clean your skin and equipment immediately after use with soap and warm water. Consult with local authorities for methods of disposal.

Storage

- Store between 50°- 80° F.
- Avoid freezing.

Packaging

640 fl. oz. / 18.93 l

HEALTH & SAFETY: Always use safe work practices. Avoid ingestion, excessive skin contact, and inhalation of spraying mists, sanding dusts, and concentrated vapors.

Any questions or concerns regarding the proper use or application, please call GOLDEN at (800) 959-6543.

Golden Mural Paints
Mural Adhesive Gel
CPWMG01-F

Technical Data Sheet – Page 2 of 2

<u>Physical/Performance Property</u>	<u>Test Method</u>	<u>Typical Result</u>
Weight per Gallon (in lbs)	Gardner Cup	8.96 lbs
Specific Gravity	Calculated	1.07
Typical Weight Solids	Calculated	41%
Typical Volume Solids	Calculated	37%
Consistency/Appearance	Visual Observation	White paste
pH (initial)	pH Meter	8.7-9.3
Viscosity	Brookfield RVT	25,000 – 40,000 cP (spindle 7, 100 rpms)
Odor	Subjective	Slight ammonia
Gloss/Sheen	Glossmeter	30–45 (85 degrees); 30-45 (60 degrees)
Base Polymer	Known	100% acrylic
Flash Point	Closed Cup	None (water based)
Freeze/Thaw Stability	Lab Test	Pass: 5 Cycles
Shelf Life	Lab Test	Expect 2 Years at 77° F
Storage Conditions	Recommendation	Cool/Dry, Avoid Freezing/Heat
Application Temperature	Recommendation	50° F to 90° F (best results)
Paintability	Recommendation	Excellent @ 4 – 6 hrs drying
Application Thinner	Recommendation	Thinning not recommended
Clean Up	Recommendation	Warm, soapy water
Coverage Per Gallon	Recommendation	Highly dependent on application and number of layers, but generally 150-300 sq. ft. per gallon

Environmental & Transportation Information

VOC: < 200 g/l

Not RCRA Hazardous for disposal

Not Dangerous Goods for shipping via any mode

SEE SDS FOR ADDITIONAL INFORMATION

LIMITED WARRANTY

In the unlikely event of product failure, and determination by GOLDEN that product did not meet intended quality or published specifications, GOLDEN will, at its discretion, either replace the product or refund the purchase price as the customer's sole remedy. GOLDEN expressly disclaims liability for incidental and consequential damages, to the extent allowed by law.

TDS Number: TDSCPWMG01-F

Date of Issue: June 25, 2019

DISCLAIMER While we believe the above information is accurate, WE MAKE NO EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, and we shall in no event be liable for any damages (indirect, consequential, or otherwise) that may occur as a result of a product application.

PrepRite® ProBlock®

Interior-Exterior Latex Primer-Sealer

B51-600 Series



**SHERWIN
WILLIAMS.**

CHARACTERISTICS

PrepRite® ProBlock® Interior-Exterior Latex Primer-Sealer:

- Assures uniform appearance of topcoats
- Fast Dry
- Apply at temperatures down to 35°F
- Assures adhesion of the topcoat to slick, glossy surfaces
- Seals out solvent sensitive stains – tar, solvent based markers, etc.
- Seals minor dried water stains and tannin
- Provides easy “slip” for positioning wallpaper

Use on interior:

- Ceiling Tiles • Paneling • Wall Laminate
- Cured Plaster • Drywall • Varnished Woodwork
- Kitchen Cabinets Ceramic • Wall Tile
- Under Wallcovering

Use on Interior and Exterior:

- Wood • Aluminum • Galvanized Metal
- Previously Painted Surfaces • PVC Piping
- Drywall • Concrete and Masonry • Many Plastics
- Glossy Surfaces • Fiberglass • Copper
- Glazed Block

Color: White & Deep Base
For best color development, use the recommended “p”-shade primer. Check color before use.

Coverage: 400 sq. ft. per gallon
@ 4 mils wet; 1.4 mils dry

Drying Time, @ 77° F, 50% RH:
Touch: 30 minutes
Recoat as a primer: 1 hour
Recoat as a stain sealer: 4 hours
Recoat to apply wallcovering: 2 hours
 Drying and recoat times are temperature, humidity, and film thickness dependent.

Finish: 5-10 units @ 85°

Tinting with CCE Only:

Base	oz. per gallon	Strength
White	0-4	SherColor
Deep Base	4-12	SherColor

White B51W00620

(may vary by color)

V.O.C. (less exempt solvents):

Less than 50 grams per litre; 0.42 lbs. per gallon
As per 40 CFR 59.406

Volume Solids: 35 ±2%
Weight Solids: 52 ±2%
Weight per Gallon: 10.89 lbs
Flash Point: N.A.
Vehicle Type: Styrenated Acrylic Latex
Shelf Life: 36 months, unopened

Anti-microbial – This product contains agents which inhibit the growth of microbes on the surface of this paint film.

COMPLIANCE

As of 8/1/2023, Complies with:

OTC	Yes
OTC Phase II	Yes
S.C.A.Q.M.D.	Yes
CARB	Yes
CARB SCM 2007	Yes
CARB SCM 2020	Yes
Canada	Yes
LEED® v4 & v4.1 Emissions	Yes
LEED® v4 & v4.1 V.O.C.	Yes
EPD-NSF® Certified	Yes
MIR-Manufacturer Inventory	Yes
MPI®	Yes

APPLICATION

When the air temperature is at 35°F, substrates may be colder; prior to painting, check to be sure the air, surface and material temperature is above 35°F and at least 5°F above the dew point. Avoid using if rain or snow is expected within 2-3 hours. Air and surface temperatures must not drop below 35°F for 48 hours after application.

Do not reduce for stain blocking.

Brush:
Use a nylon-polyester brush.

Roller:
Use a 3/8 inch nap soft woven cover.

For specific brushes and rollers, please refer to our Brush and Roller Guide on sherwin-williams.com

Spray - Airless:
 Pressure 2000 p.s.i.
 Tip .015-.021 inch

APPLICATION TIPS

For best topcoat color development, use a recommended “P”-shade primer. Check color before use.

When spot priming on some surfaces, a non-uniform appearance of the final coat may result, due to differences in holdout between primed and unprimed areas. To avoid this, prime the entire surface rather than spot priming.

For optimal performance, this primer must be topcoated with a latex, alkyd-oil, water-based epoxy, or solvent based epoxy coating on architectural applications.

For exterior exposure, this primer must be topcoated within 14 days with architectural latex or oil finishes.

General Priming: PrepRite ProBlock Interior-Exterior Latex Primer-Sealer can be topcoated in 1 hour in non-stain blocking applications.

SPECIFICATIONS

1 coat PrepRite ProBlock Interior-Exterior Latex Primer-Sealer
 2 coats appropriate topcoat

Recommended Architectural Topcoats:

All Surface Enamels
 A-100® Exterior Latex
 Duration® Exterior & Duration Home® Interior
 Emerald® Exterior & Interior
 Emerald® Urethan Trim Enamel
 SuperPaint® Exterior & Interior
 ProClassic® Interior Enamels
 ProMar® Interior

Recommended Architectural Topcoats:

Pro Industrial™ Acrylic Coating
 Pro Industrial™ Pre-Cat Epoxy
 Pro Industrial™ Pre-Cat Urethane
 Pro Industrial™ Waterbased Catalyzed Epoxy

PrepRite® ProBlock®

Interior-Exterior Latex Primer-Sealer

SURFACE PREPARATION

WARNING! If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Scrape and sand peeled or checked paint to a sound surface. Sand Glossy surfaces dull. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Special recommendations:

After priming stained surfaces, allow to dry 4 hours, test a small area for bleeding by applying the topcoat before painting the entire project. If the stain bleeds through, apply a second coat of primer, and allow to dry overnight and retest before topcoating. For a complete primer outside, use appropriate exterior primers.

Caulking:

Fill gaps between walls, ceiling, crown moldings, and other with the appropriate caulk after priming the surface.

Drywall:

Fill cracks and nail holes with patching paste-spackle and sand smooth. Joint compounds must be cured and sanded smooth. Remove all sanding dust.

Fire restoration work:

Thoroughly clean the surface before applying to smoke-stained areas. Apply one or two coats of Multi-Purpose Latex Primer/Sealer and test a small area for bleeding before painting the entire surface.

Testing:

Always check for compatibility and adhesion to the surface by applying a test patch of 2-3 square feet. Allow to dry thoroughly for 1 week before checking adhesion.

Tile:

Laminate, ceramic, and plastic tiles, and similar glossy surfaces, must be free of all oil, grease, and soap residue. Do not use this product in areas subject to excessive water, e.g.: in showers, around sinks, on counter tops.

On hard, slick, glossy or otherwise hard to paint surfaces, after preparing the surface, apply a test area of this primer, allow to dry properly and test for adhesion.

SURFACE PREPARATION

Mildew:

Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.

Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts clean water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with clean water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach-water solution.

Plaster:

Bare plaster must be cured, usually 30 days, and hard. If painting cannot wait, allow the surface to dry 7 days and prime with Loxon Concrete and Masonry Primer. Soft, porous, or powdery plaster should be treated with a solution of 1 pint household vinegar to 1 gallon of clean water. Repeat until the surface is hard, rinse with clear water and allow to dry.

When used as a primer under wallcovering:

After the wallcovering has been applied and the adhesive has dried and cured, wait at least 21 days before removing the wallcovering to avoid damage to the drywall.

Wood Exterior:

Sand any exposed, weathered wood to a fresh surface. Replace any deteriorated wood. On woods that present potential tannin bleeding, such as redwood and cedar, Multi-Purpose Latex can be used. Care must be taken to determine if tannins will be activated by the water in the coating. To test for bleeding, coat a 4 foot by 4 foot section with the primer. If no bleeding is evident within 4 hours, proceed with complete priming. If bleeding occurs, use Exterior Oil-Based Wood Primer.

For a complete whole house primer outside, use Exterior Latex Wood Primer or Exterior Oil-Based Wood Primer.

CAUTIONS

Protect from freezing.

Non-Photochemically reactive.

Before using, carefully read **CAUTIONS on label**.

CRYSTALLINE SILICA Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area. Adequate ventilation required when sanding or abrading the dried film. If adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. **FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Abrading or sanding of the dry film may release crystalline silica which has been shown to cause lung damage and cancer under long term exposure. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

HOTW 8/1/2023 B51W00620 41 00
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CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and clean warm water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

SAFETY DATA SHEET

B51W620

Section 1. Identification

Product name : PrepRite® ProBlock® Interior/Exterior Latex Primer/Sealer
White

Product code : B51W620

Other means of identification : Not available.

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Paint or paint related material.

Manufacturer : THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

Emergency telephone number of the company : US / Canada: (800) 424-9300
Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

Product Information Telephone Number : US / Canada: 1-800-474-3794
Mexico: Not Available

Transportation Emergency Telephone Number : US / Canada: (800) 424-9300
Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : CARCINOGENICITY - Category 2
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : Suspected of causing cancer.
Causes damage to organs through prolonged or repeated exposure. (lungs)

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Response : IF exposed or concerned: Get medical advice or attention.

Storage : Store locked up.

Date of issue/Date of revision : 4/10/2024 **Date of previous issue** : 9/16/2023

Version : 22 1/12

B51W620 PrepRite® ProBlock® Interior/Exterior Latex Primer/Sealer
White

SHW-85-NA-GHS-US

Section 2. Hazards identification

- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Supplemental label elements** : WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Adequate ventilation required when sanding or abrading the dried film. If Adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Abrading or sanding of the dry film may release Crystalline Silica which has been shown to cause lung damage and cancer under long term exposure. This product contains a TSCA regulated chemical. See Section 15 of the US SDS for details.
Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.
- Hazards not otherwise classified** : None known.

Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Other means of identification** : Not available.
- CAS number/other identifiers**

Ingredient name	% by weight	CAS number
Titanium Dioxide	≥10 - ≤25	13463-67-7
Talc	≤10	14807-96-6

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Section 4. First aid measures

Ingestion : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments : No specific treatment.
Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : **This product contains a TSCA regulated chemical. See Section 15 of the US SDS for details.**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
Titanium Dioxide	13463-67-7	OSHA PEL (United States, 5/2018). TWA: 15 mg/m ³ 8 hours. Form: Total dust
Talc	14807-96-6	ACGIH TLV (United States, 1/2023). TWA: 2.5 mg/m ³ 8 hours. Form: respirable fraction, finescale particles NIOSH REL (United States, 10/2020). TWA: 2 mg/m ³ 10 hours. Form: Respirable fraction ACGIH TLV (United States, 1/2023). TWA: 2 mg/m ³ 8 hours. Form: Respirable fraction

Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits
talc (none asbestiform)	14807-96-6	CA British Columbia Provincial (Canada, 6/2022). Notes: the value is for particulate matter containing no asbestos and less than 1% crystalline silica. TWA: 2 mg/m ³ 8 hours. Form: Respirable CA Quebec Provincial (Canada, 6/2022). TWAEV: 2 mg/m ³ 8 hours. Form: Respirable dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 2 mg/m ³ 8 hours. Form: Respirable particulate CA Ontario Provincial (Canada, 6/2019). TWA: 2 mg/m ³ 8 hours. Form: Respirable particulate matter. TWA: 2 f/cc 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). TWA: 2 mg/m ³ 8 hours. Form: respirable fraction

Occupational exposure limits (Mexico)

Ingredient name	CAS #	Exposure limits
None.		

Biological exposure indices (United States)

No exposure indices known.

Biological exposure indices (Canada)

No exposure indices known.

Biological exposure indices (Mexico)

No exposure indices known.

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Section 8. Exposure controls/personal protection

- Environmental exposure controls** : This product contains a TSCA regulated chemical. See Section 15 of the US SDS for details.
Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
- Individual protection measures**
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

- Physical state** : Liquid.
- Color** : White.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : 8.8
- Melting point/freezing point** : Not available.
- Boiling point, initial boiling point, and boiling range** : 100°C (212°F)
- Flash point** : Closed cup: Not applicable.
- Evaporation rate** : 0.09 (butyl acetate = 1)
- Flammability** : Not available.

Section 9. Physical and chemical properties

Lower and upper explosion limit/flammability limit : Not available.
Vapor pressure : 2.3 kPa (17.5 mm Hg)
Relative vapor density : 1 [Air = 1]
Relative density : 1.31
Solubility(ies) :

Media	Result
cold water	Partially soluble

Partition coefficient: n-octanol/water : Not applicable.
Auto-ignition temperature : Not available.
Decomposition temperature : Not available.
Viscosity : Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt)
Molecular weight : Not applicable.
Heat of combustion : 0.206 kJ/g

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-
Talc	Skin - Mild irritant	Human	-	72 hours 300 ug l	-

Sensitization

Not available.

Mutagenicity

Not available.

Section 11. Toxicological information

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Titanium Dioxide	-	2B	-
Talc	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Talc	Category 1	inhalation	lungs

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Potential chronic health effects

Not available.

Section 11. Toxicological information

- General** : Causes damage to organs through prolonged or repeated exposure.
- Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Titanium Dioxide	Acute LC50 >1000000 µg/l Marine water	Fish - <i>Fundulus heteroclitus</i>	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

- Soil/water partition coefficient (K_{oc})** : Not available.

- Other adverse effects** : No known significant effects or critical hazards.

Section 13. Disposal considerations

- Disposal methods** : **This product contains a TSCA regulated chemical. See Section 15 of the US SDS for details.**
The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-

Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to IMO instruments : Not available.

Proper shipping name : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 5(a)2 proposed significant new use rules:** 2-Methyl-4-isothiazolin-3-one; reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

TSCA 5(a)2 final significant new use rules: Sodium Nitrite

List name	Chemical name	Notes
United States - TSCA 5(a) 2 - Final significant new use rules	Sodium Nitrite	40 CFR 721.4740

SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet, where applicable.

California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

International regulations

Montreal Protocol

Section 15. Regulatory information

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

International lists

- : **Australia inventory (AIIIC):** Not determined.
- : **China inventory (IECSC):** Not determined.
- : **Japan inventory (CSCL):** Not determined.
- : **Japan inventory (ISHL):** Not determined.
- : **Korea inventory (KECI):** Not determined.
- : **New Zealand Inventory of Chemicals (NZIoC):** Not determined.
- : **Philippines inventory (PICCS):** Not determined.
- : **Taiwan Chemical Substances Inventory (TCSI):** Not determined.
- : **Thailand inventory:** Not determined.
- : **Turkey inventory:** Not determined.
- : **Vietnam inventory:** Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	*	3
Flammability		0
Physical hazards		0

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
CARCINOGENICITY - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1	Calculation method

History

Date of printing : 4/10/2024

Date of issue/Date of revision : 4/10/2024

Date of previous issue : 9/16/2023

Version : 22

Key to abbreviations :

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- N/A = Not available
- SGG = Segregation Group

Section 16. Other information

UN = United Nations

✔ Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

**Technical information requested by
Architectural Committee at February 25, 2025 meeting**

March 6, 2025

Dear Members of the Historical Commission,

We look forward to presenting our application at your March 14th meeting where we will seek your approval for our proposed mural at 1631-37 Arch Street, a wall that provides a backdrop for the Horwitz-Wasserman Holocaust Memorial Plaza.

On Tuesday, February 25th we presented at the architectural committee review. While the committee acknowledged that the installation of the mural on a party wall would not destroy the historic character of the building, they were concerned about the water vapor permeability of the proposed products to be used on the wall.

At the conclusion of that meeting, Mural Arts contacted the manufacturers of these products. They were able to provide ample information to show that the water vapor permeability of all items to be used were well over the standard rating for "vapor permeable." Please see the attached document detailing these ratings.

We look forward to meeting with you and answering any additional questions you may have.

Thank you for your time and consideration of our proposal.

Sincerely,



Lindsey Rosenberg
Public Project Specialist

Masonry Coatings: The importance of permeability:

A material’s permeability is measured in units called perms. Standardized industry tests determine how much moisture can pass through a barrier in a 24-hour period. These tests give materials a relative rating that indicates how resistant each one is to allowing moisture vapor to pass through.

Materials can be separated into four general classes based on their permeance:

- Vapor impermeable: 0.1 perms or less
- Vapor semi-impermeable: 1.0 perms or less and greater than 0.1 perm
- Vapor semi-permeable: 10 perms or less and greater than 1.0 perm
- Vapor permeable: greater than 10 perms

Materials with lower perm ratings are better at stopping the movement of water vapor. If the perm rating is low enough, the material is a vapor retarder. If it’s really low, it is a vapor barrier. Materials that are vapor retarders and barriers trap moisture and can potentially damage masonry beneath coating materials.

If the US Perm rating is greater than 10, it is not considered a vapor retarder. It is a permeable material and allows moisture vapor to pass through.

Products to be used on 1631-37 Arch St mural

Product name	US Perms/Water Vapor Permeance	Metric Perms*	Is this a vapor permeable material? (US Perm rating is greater than 10)
Golden Paintworks Mural Adhesive Gel	56	37	Yes
Golden Paintworks Mural & Theme Paints/Various colors	30-47	20-31	Yes
Golden Paintworks Mural & Theme Acrylic Topcoat/Satin	62	41	Yes
Sherwin Williams Prep-Rite Primer	23	15	Yes

*1 metric perm is equal to 1.51735 US perms.



Fwd: Water Vapor Permeance

From Lindsey Rosenberg <lindsey.rosenberg@muralarts.org>
Date Mon 3/3/2025 3:14 PM
To Allyson Mehley <Allyson.Mehley@Phila.gov>
Cc Eszter Kutas <ekutas@philaholocaustmemorial.org>; David McShane <david.mcshane@muralarts.org>

External Email Notice. This email comes from outside of City government. Do not click on links or open attachments unless you recognize the sender.

Begin forwarded message:

From: Dawn Bagnall <DBagnall@goldenpaints.com>
Subject: RE: Water Vapor Permeance
Date: March 3, 2025 at 3:10:22 PM EST
To: Lindsey Rosenberg <lindsey.rosenberg@muralarts.org>

	Product	Metric Perms
	M&T Colors Various	20-31
CPWVG01	M&T Mural Adhesive Gel	37
CPWTPC4	M&T Acrylic Topcoat Satin	41

Dawn Bagnall
 PW Commercial Account Representative
 607-847-6154 x1141





Water Vapor Permeance

Background

Water vapor transmission is a fairly common product specification. However, the number of ways to report the results can make interpreting data from an outside source confusing. This document will give a brief summary of the test methods and conditions used.

Summary of Methods

A perm is simply a measure of the passage of water vapor through materials. In general, the higher the number the more water vapor will pass through that material. To measure this property a material is fixed to a cup containing water or desiccant and either water loss or gain from the cup is measured after exposure to specific test conditions for a specific time in a controlled environment. There are two major ASTM test methods used to measure this property which differ in the type of materials tested:

D1653 Water Vapor Transmission of Organic Coating Films - for films of paint, varnish, lacquer, and other organic coatings.

E96 Water Vapor Transmission of Materials – for materials such as paper, plastic films, other sheet materials, fiberboards, gypsum and plaster products, wood products, and plastics.

ASTM E96 may also be used to test coating systems-for example paint over drywall

Test Method Conditions

Both D1653 and E96 specify both a “Dry Cup” Test Method A and “Wet Cup” Test Method B. In dry cup the direction of water vapor flow is through the material into the test cup and with wet cup vapor flows through the material and out of the cup. Both the temperature and relative humidity of the test chamber are extremely important to the test results. **It cannot be expected to directly compare results obtained by the dry cup method to those obtained by the wet cup method.**

Reporting of Results

There are three separate terms (in both US and Metric units) that can be used to quantify the rate of water vapor through a film: Water vapor transmission (WVT) - this is the rate of water vapor transmission per unit area per unit time. It takes into account the area of the film. Water Vapor Permeance (WVP) - WVP is a little more specific than WVT and takes into account the test conditions (humidity and temperature) used. **“Perms” as defined by ASTM are WVP in English units.** WVP in metric units is referred to as “Metric Perms”. Permeability - Water vapor permeability takes film thickness as well as test conditions into account. Increasing the total dry film thickness will generally decrease the reported WVP & WVT, but not permeability as permeability is normalized to film thickness.

Product:	Item number	Test Method	WVP^
Builders Solution® Interior Latex Flat	A61W00251	ASTM D1653 Method B*	40.27 ± 0.50 Perms
Builders Solution® Interior Latex Matte	A64W00051	ASTM D1653 Method B*	55.39 ± 3.63 Perms
Builders Solution® Interior Latex Eg-Shel	A62W00151	ASTM D1653 Method B*	46.77 ± 2.43 Perms
Builders Solution® Interior Primer/Surfacer	A63W00100	ASTM D1653 Method B*	106.50 ± 6.92 Perms
Harmony® Interior Latex Primer	B11W01500	ASTM D1653 Method B*	88.14 ± 5.21 Perms
Harmony® Interior Latex Flat	B05W01051	ASTM D1653 Method B*	40.84 ± 0.79 Perms
Harmony® Interior Latex Eg-Shel	B09W01051	ASTM D1653 Method B*	44.41 ± 0.43 Perms
Harmony® Interior Latex Semi-Gloss	B10W01051	ASTM D1653 Method B*	68.86 ± 5.38 Perms
Emerald® Interior Latex Flat	K35W00451	ASTM D1653 Method B*	22.15 ± 1.42 Perms
Emerald® Interior Latex Matte	K36W00451	ASTM D1653 Method B*	16.85 ± 1.50 Perms
Emerald® Interior Latex Satin	K37W00451	ASTM D1653 Method B*	17.74 ± 0.70 Perms
Emerald® Interior Latex Semi-Gloss	K38W00351	ASTM D1653 Method B*	18.45 ± 0.89 Perms
Eminence® Interior Latex Flat Ceiling Paint	A27W00351	ASTM D1653 Method B*	120.60 ± 3.68 Perms
Extreme Block™ Stain Blocking Oil-Based Primer/Sealer	B49W00600	ASTM D1653 Method B*	17.06 ± 1.0 Perms
Extreme Block™ Waterbased Stain Blocking Primer Clear	B72T00600	ASTM D1653 Method B*	21.96 ± 1.67 Perms
High Build Interior Latex Primer/Surfacer	B28W08601	ASTM D1653 Method B*	152.14 ± 0.90 Perms
Moisture Vapor Barrier Primer/Finish	B72W00011	ASTM E96 Procedure A	.95 Perms
* Multi-Purpose Latex Primer	B51W00450	ASTM D1653 Method B*	23.09 ± 3.35 Perms
Painters Edge™ Interior Flat	PE3000051	ASTM D1653 Method B*	81.59 ± 0.96 Perms
Painters Edge™ Interior Flat	PE3000451	ASTM D1653 Method B*	99.22 ± 11.98 Perms
Painters Edge™ Interior Eg-Shel	PE2000051	ASTM D1653 Method B*	89.13 ± 6.2 Perms
Painters Edge™ Interior High Sheen Eg-Shel	PE2400151	ASTM D1653 Method B*	38.01 ± 0.46 Perms
Painters Edge™ Interior High Sheen Satin	PE2200051	ASTM D1653 Method B*	87.66 ± 2.11 Perms
Painters Edge™ Interior Semi-Gloss	PE2200051	ASTM D1653 Method B*	91.35 ± 2.51 Perms

*method B, condition A (50% RH 73°F(23°C))

^US units=grains/(hr ft2 in Hg)

This information is furnished only as a guide and is not all-inclusive of available Sherwin-Williams products. Refer to the product data sheet of each product for more information.

***Mural Arts was advised by the manufacturer that the Sherwin Williams "Prep Rite Primer" specified for this mural has the same Water Vapor Permeance as the Sherwin Williams Multi-Purpose Latex Primer.**



SHERWIN-WILLIAMS.

03/15/2021

Water Vapor Permeance

Product:	Item number	Test Method	WVP^
ProMar [®] 200 Zero VOC Interior Primer	B28W02600	ASTM D1653 Method B*	135.65 ± 5.07 Perms
ProMar [®] 200 Zero VOC Interior Flat	B30W12651	ASTM D1653 Method B*	70.83 ± 3.74 Perms
ProMar [®] 200 Zero VOC Interior Low Sheen Eg-Shel	B24W02651	ASTM D1653 Method B*	64.08 ± 2.25 Perms
ProMar [®] 200 Zero VOC Interior Low Gloss Eg-Shel	B41W02651	ASTM D1653 Method B*	53.98 ± 0.78 Perms
ProMar [®] 200 Zero VOC Interior Eg-Shel	B20W12651	ASTM D1653 Method B*	54.19 ± 3.02 Perms
ProMar [®] 200 Zero VOC Interior Semi-Gloss	B31W02651	ASTM D1653 Method B*	85.75 ± 6.48 Perms
ProMar [®] 400 Zero VOC Interior Primer	B28W04600	ASTM D1653 Method B*	52.95 ± 1.22 Perms
ProMar [®] 400 Zero VOC Interior Flat	B30W04651	ASTM D1653 Method B*	122.10 ± 2.86 Perms
ProMar [®] 400 Zero VOC Interior Latex Low Sheen	B24W04651	ASTM D1653 Method B*	90.33 ± 2.34 Perms
ProMar [®] 400 Zero VOC Interior Eg-Shel	B20W04651	ASTM D1653 Method B*	94.17 ± 10.48 Perms
ProMar [®] 400 Zero VOC Interior Semi-Gloss	B31W04651	ASTM D1653 Method B*	85.70 ± 6.53 Perms
ProMar [®] 200 HP Zero VOC Interior Low Gloss Eg-Shel	B41W01951	ASTM D1653 Method B*	27.62 ± 0.60 Perms
ProMar [®] 200 HP Zero VOC Interior Eg-Shel	B20W01951	ASTM D1653 Method B*	27.58 ± 0.98 Perms
ProMar [®] 200 HP Zero VOC Interior Semi-Gloss	B31W01951	ASTM D1653 Method B*	31.28 ± 0.82 Perms
PVA Primer	B28W08020	ASTM D1653 Method B*	134.41 ± 2.97 Perms
Premium Interior Wall & Wood Primer	B28W08111	ASTM D1653 Method B*	46.36 ± 2.10 Perms
PrepRite [®] Block Filler	B25W00025	ASTM D1653 Method B*	53.65 ± 0.69 Perms
ProMar [®] Block Filler	B25W00035	ASTM D1653 Method B*	49.46 ± 0.66 Per
Pro Industrial [™] Urethane Alkyd Enamel	B54W00151	ASTM D1653 Method B*	5.80 ± .42 Perms
Pro Industrial [™] Waterbased Alkyd Urethane Gloss	B53W01051	ASTM D1653 Method B*	17.77 ± 1.43 Perms
Pro Industrial [™] Waterbased Alkyd Urethane Semi-Gloss	B53W01151	ASTM D1653 Method B*	19.69 ± 2.15 Perms
Pro Industrial [™] Waterbased Alkyd Urethane Eg-Shel	B53W01251	ASTM D1653 Method B*	17.15 ± 1.04 Perms
Snap Dry [®] Interior Exterior Satin	A70W00051	ASTM D1653 Method B*	22.61 ± .1 Perms
Snap Dry [®] Interior Exterior Semi-Gloss	A71W00051	ASTM D1653 Method B*	32.09 ± 1.25 Perms
Solo [®] Interior Exterior Flat	A74W00051	ASTM D1653 Method B*	39.46 ± 1.3 Perms
Solo [®] Interior Exterior Eg-Shel	A75W00051	ASTM D1653 Method B*	52.44 ± 0.90 Perms
Solo [®] Interior Exterior Satin	A73W00051	ASTM D1653 Method B*	30.06 ± 1.54 Perms
Solo [®] Interior Exterior Semi-Gloss	A76W00051	ASTM D1653 Method B*	52.42 ± 1.53 Perms
Solo [®] Interior Exterior Gloss	A77W00051	ASTM D1653 Method B*	55.67 ± 4.07 Perms
Supreme High Build Interior Latex Flat	S18W00051	ASTM D1653 Method B*	98.72 ± 3.81 Perms
Supreme High Build Interior Latex Eg-Shel	S19W00151	ASTM D1653 Method B*	65.38 Perms
Supreme High Build Interior Latex Semi-Gloss	S20W00051	ASTM D1653 Method B*	66.20 Perms
Tuff Surface [®] Interior Acrylic Texture Finish Flat	A44W01050	ASTM E96 Procedure B	9.46 Perms
Tuff Surface [®] Interior Acrylic Texture Finish Eg-Shel	A44W01350	ASTM E96 Procedure B	7.49 Perms
White Pigmented Shellac Primer	B49W08150	ASTM E96 Procedure A	.95 Perms
White Synthetic Shellac Interior Stain Blocking Primer	B49W00060	ASTM D1653 Method B*	11.53 ± 1.42 Perms

*method B, condition A (50% RH 73°F(23°C))

^US units=grains/(hr ft2 in Hg)

The Sherwin-Williams Company

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