



# Muralshield Preservation Solution

For the PROTECTION & CONSERVATION  
of fine art acrylic murals

Product Data Sheet

Product Code: WB0130

Issued: July 12, 2023

## PRODUCT DESCRIPTION

MURALSHIELD is designed for the protection and conservation of fine art acrylic murals. It offers UV protection, consolidation, and weatherproofing. MURALSHIELD will restore weathered, uncoated murals, and is recommended for the preservation of new acrylic and aerosol murals.



SPARC mural restoration, Hollywood CA

MURALSHIELD is a conservation grade flexible coating designed as a protective and isolation layer. However, it will not protect against graffiti vandalism alone. For long lasting, durable graffiti protection, WORLD'S BEST GRAFFITI COATING must be applied over MURALSHIELD.

Once a mural is preserved with MURALSHIELD, WORLD'S BEST GRAFFITI COATING is easily applied as a sacrificial barrier for graffiti protection, enabling quick removal of all types of graffiti vandalism without damage to the underlying surface.

The final outcome will be a highly maintainable, durable, vibrant mural.



MURALSHIELD being applied with HVLP sprayer



MURALSHIELD is compatible with artist-grade acrylic paints, fine art aerosols, collage-based, or digitally printed murals. Compatible substrates include building structures such as uncoated concrete, wood and signage grade panels, most exterior insulated finishing systems (EIFS) and stuccos, CMU block walls, brick walls (depending on the brick condition), painted and coated surfaces.

MURALSHIELD can also be used to prepare a concrete, CMU, stucco, painted or unpainted wall for painting. MURALSHIELD should only be used after a wall is cleaned and thoroughly dry.

Apply two coats of MURALSHIELD to a painted or unpainted surface prior to gessoing or priming.

## FEATURES & BENEFITS

- Restores color to sun-damaged, uncoated murals as well as flexibility and vibrancy to weakened paint binders.
- Can be painted over indefinitely, so long as an additional coat of MURALSHIELD is applied to the newly painted section.
- Provides long lasting UV protection and weather proofing.



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### INSTRUCTIONS FOR USE

Use the product as supplied; do not dilute or shake before use. Do not add water to product. Do not apply product with water-wet brushes or recently washed equipment, over dew or moist surfaces, or when there is a possibility of rain or very high humidity.

MURALSHIELD should only be sprayed using an HVLP, an ACETONE RATED pump-up sprayer, or airless sprayer. It is normal best practice to mask and protect windows in a suitable manner.

### HOW TO APPLY MURALSHIELD

Begin by testing MURALSHIELD on an inconspicuous section of the mural. You should see a noticeable increase in color vibrancy and luster. Allow to dry. Use adequate solvent-rated masks, protective goggles, and solvent-rated gloves.

### Method of Application

Apply by airless spray gun, Gravity Feed or Siphon HVLP spray guns, or Acetone-rated pump-up Sprayer.

Using rental equipment is discouraged. Should it be used, inspect for paint contaminants in all hoses, containers, and fittings. Dry paint within spray equipment should be thoroughly removed before spraying MURALSHIELD.

Avoid applying MURALSHIELD with brushes or rollers as the coating may damage the artwork.

**Step 1** Allow a newly painted artwork to thoroughly cure before applying MURALSHIELD.

**Step 2** Apply a first coat, lightly misted (fog coat), to ensure initial wall adhesion.

**Step 3** Apply two to three generous coats of MURALSHIELD, allowing at least 10 minutes of drying time between coats. Make sure to overlap your passes to ensure a thorough coating.

**Step 4** Allow final coat to dry thoroughly for at least 20 minutes before applying WORLD'S BEST GRAFFITI COATING (WBGC). Apply at least two coats of WBGC (or more if the artwork is highly susceptible to vandalism) using a clean HVLP sprayer, tight knit roller, or brush. Use a bristle brush to remove any beading.

For additional instructions on how to apply WBGC (see WBGC Product Data Sheet).

### CLEANING INSTRUCTIONS FOR SPRAYERS

After spraying MURALSHIELD, do not clean spray equipment with water. Rinse spray equipment with Acetone or paint thinners. A final rinse with water is recommended.

After spraying WORLD'S BEST GRAFFITI COATING, spray equipment can be easily rinsed with water.

### GRAFFITI REMOVAL INSTRUCTIONS

#### SMALL SCALE 'TAG' REMOVAL JOBS

**Step 1** Apply SENSITIVE SURFACE or HERITAGE GRAFFITI REMOVER with a solvent-rated brush. Agitate the graffiti with your brush as the product is applied.

**Step 2** Wipe away dissolved graffiti with a damp toweling cloth.

**Step 3** Once satisfied with the results, thoroughly rinse the affected area and allow the surface to dry. Re-apply two to three coats of WORLD'S BEST GRAFFITI COATING by spray, roller, or brush.



Though cold water pressure washers will usually suffice, hot water yields the best results.

#### LARGE SCALE GRAFFITI REMOVAL JOBS

For large scale removals, such as bombs, heavy tagging, filled in bubble writing, buffed or painted over murals.

**Step 1** Work in sections of 5-10 sq ft. Apply HERITAGE GRAFFITI REMOVER using a pump up sprayer, nylon brush or broom, and agitate.



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### LARGE SCALE GRAFFITI REMOVAL JOBS cont...

**Step 2** You will see the graffiti gradually dissolve on the surface. Rinse the dissolved graffiti using a pressure washer with a 25° tip maintaining a distance of 6" - 12" away from the mural surface in order to ensure no damage to the acrylic paint layer.

**Step 3** Any remaining graffiti can be spot cleaned using HERITAGE REMOVER or SENSITIVE SURFACE REMOVER and a nylon bristle brush.

**Step 4** Once all graffiti is removed, rinse the entire mural clean. Allow 15-30 minutes before reapplying WORLD'S BEST GRAFFITI COATING.

**Step 5** Apply two coats of WORLD'S BEST GRAFFITI COATING by spray, roller, or brush.



Cleaning graffiti after using MURALSHIELD in conjunction with WORLD'S BEST COATING.

'Hitting the Wall' Los Angeles 110 Freeway © Judy Baca



### RESTORING A COATED OR UNCOATED MURAL

**Step 1** Remove sacrificial or non-sacrificial coatings. Contact the original artist and collect any historical information on the mural or artwork. Follow appropriate methods for obtaining artist permission as per the Visual Artist Rights Act, 17 U.S. Code § 106A.

Follow conservation procedures and American Institute of Conservation Code of Ethics and Guidelines for Practice. Document and assess the condition of the mural for any delamination or sensitive areas.

Secure delaminating areas prior to removing any graffiti. Identify any previously used graffiti coating. If it is a sacrificial coating, follow the manufacturer's instructions for removal. If it is a non-sacrificial coating, contact the manufacturer for best removal practices.

For removal of non-sacrificial urethane or polyurethane coatings, contact the Social and Public Art Resource Center. Remove the previous graffiti coating and go on to Step 2.

#### **Step 2** Test the condition of a mural.

Assess the condition of the mural by wiping the acrylic paint layer with a damp white cloth. A damaged binder will release a substantial amount of pigment.

If you are able to wipe off a substantial amount of color, avoid washing the mural with harsh chemicals or pressure washers. Go to Step 3.

If a little color comes off of the mural, consider using a biodegradable soap, and a low PSI pressure wash with a water temperature of 80-150°F.

#### **Step 3** Apply MURALSHIELD.

Apply 2-3 coats of MURALSHIELD. You should see a significant color shift in damaged areas.

#### **Step 4** In-painting.

Select an artist grade acrylic paint. We suggest using Golden Artist Colors. Proceed as per normal conservation practices.

#### **Step 5** Reapply MURALSHIELD.

Apply 2-3 coats of MuralShield. Follow the application instructions in the section, "How to Apply MuralShield."

#### **Step 6** Apply WORLD'S BEST COATING.

Apply 2-3 coats of WORLD'S BEST COATING. Document the final conservation results. For more information, contact the Social and Public Art Resource Center at +1-310-822-9560 ([www.SPARCinLA.org](http://www.SPARCinLA.org)).



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## MODIFYING A MURAL PREVIOUSLY COATED WITH MURALSHIELD AND WORLD'S BEST COATING cont...

**Step 1** For touch-ups or artwork modifications, or in-painting projects, thoroughly remove WORLD'S BEST GRAFFITI COATING (WBGC) by using HERITAGE GRAFFITI REMOVER with a cold or hot pressure washer at 120°F / 49°C - 200°F / 93°C. You will see a visible difference in the areas where WBGC has been removed.

**Step 2** Test your mural by lightly scraping the surface with a blunt blade or fingernail. If you do not see a waxy residue on your tool, then you are ready to commence in-painting.

**Step 3** Allow the freshly painted areas to thoroughly cure.

**Step 4** Apply two to three generous coats of MURALSHIELD to the entire mural, followed by two final coats of WBGC.

## PREPARING NEW WALLS

### For Uncoated or Unpainted Walls

**Step 1** Wash an uncoated wall using TSP (Trisodium Phosphate and / or biodegradable soap. Allow the surface to thoroughly dry.

**Step 2** Apply 2-3 coats of MURALSHIELD.

**Step 3** Gesso or prime the wall surface.

**Step 4** (Optional) Reapply 1-2 additional coats of MURALSHIELD.

### For Coated or Painted Walls

**Step 1** Assess the condition of the coated or painted surface. If the coating or paint easily delaminates off of the wall, consider removing this first. If there is adequate adhesion, wash the wall using a biodegradable soap and allow the surface to thoroughly dry.

**Step 2** Apply 2-3 coats of MURALSHIELD.

**Step 3** Gesso or prime the wall surface.

**Step 4** (Optional) Reapply 1-2 additional coats of MURALSHIELD.

## CAUTION

Before commencing any large scale coating application, be sure to test thoroughly on an inconspicuous area to determine finish and compatibility with your materials.

Please be aware the use of solvent based sharpies for outlining your mural may bleed through paint after application of MuralShield. We do not recommend using sharpies for this reason.

## SAFETY ISSUES

Flammable: Do not apply MURALSHIELD near any potential source of ignition. Keep away from heat and open flame. Contact with other material may cause fire. Take precautionary measures against static discharge.

Use only outdoors or in well-ventilated areas using a face mask or respirator. Avoid applying in populated areas.

Skin Contact: Remove contaminated clothing and wash affected area with plenty of water.

Eye Contact: Immediately eyes with plenty of water for 15 minutes. Seek medical attention.

Storage: Keep container in cool well-ventilated area.

Personal Protection: Wear gloves and protective goggles to avoid skin and eye contact. Utilize either work clothes or a disposable protective suit, to avoid garment damage or accidental spillage.

Use adequate solvent-rated masks or respirator. We recommend solvent or paint stripping rated masks with a cartridge based re-breather. A splash-proof guard should be used when spraying.

## MATERIAL SPECIFICATIONS AND COVERAGE GUIDELINES

Approximately 300 sq ft of coverage per gallon on painted or unpainted surfaces, depending on substrate and application technique, for 2-3 coats of product. (For example, an 800 sq ft mural on a wall will require 2-3 gallons of MURALSHIELD).



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### MATERIAL SPECIFICATIONS AND COVERAGE GUIDELINES cont...

#### Drying Period

Quick drying, allow 10-15 minutes, depending on the environmental conditions.

#### Appearance on Surface

Completely clear, producing a vibrant luster to glossy finish.

#### TEMPERATURE USAGE

Ideal temperature for external application should be between 45°F / 7°C - 95°F / 35°C. Minimum temperature is 40°F. Relative humidity must not exceed 95%.

NB: Fresh concrete has to cure for at least 28 days before protection.

#### TECHNICAL DATA

Supplied in 1g bottles or 5g steel containers.

Color: Clear colorless volatile liquid.

Odor: Fragrant, Mint like odor

Specific Weight: 0.79 @ 20C/4C.

PH: Not specified.

Storage: Store in a cool, dry and well-ventilated place away from any ignition source.

Shelf Life: 5 years in sealed original containers.

DOT MARKING:

UN1993, Flammable liquid, n.o.s.,(t butyl acetate, acetone),3,PGII

Refer to SDS for more details

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