



## TILE-CLAD® HIGH SOLIDS

### Epoxy-Polyamide Coating

#### Description

A two component, two-package, epoxy-polyamide coating for use in industrial maintenance environments and high performance architectural applications. It can be applied on galvanized steel, mosaics and ceramic tiles, concrete, masonry and wood. It is chemical and abrasion resistant. Its hardener resists film attack by mildew. It has outstanding application properties.

#### Technical Specifications

Vehicle type	:	Epoxy - Polyamide
Specific Gravity	:	1.29±0.02, mixed, may vary by colour
Volume solids	:	56 ± 2%, mixed, may vary by colour
Weight solids	:	70 ± 2%, mixed, may vary by colour
Coverage (on a smooth surface)	:	6-9 m <sup>2</sup> /L/ coat
Dilution for application with brush or roller	:	Up to 10% by volume
Dilution for application by spray	:	Up to 10% by volume
Flash point	:	33 °C, PMCC, mixed
<b>EU limit value for this product (cat. A/j): 500g/l (2010). This product contains max 413g/l VOC, mixed.</b>		

Drying Schedule @ 100 microns and 50% RH:			
	13°C	25°C	43°C
<b>To touch:</b>	3h	1h	20'
<b>Tack free:</b>	6h	2h	30'
<b>To recoat (min):</b>	6h	2h	30'
<b>To recoat (max):</b>	30 days	30 days	30 days
<b>To stack:</b>	18h	16h	3h
<b>To cure:</b>	21 days	14 days	7 days
<b>Pot life</b>	4h	4h	2h
<b>Sweat-in-time</b>	1h	30'	10'

If maximum recoat time is exceeded, abrade surface before recoating.

Drying time is temperature, humidity, and film thickness dependent.

#### Instructions for Use

##### SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

**Galvanized Steel:** Allow to weather a minimum of six months prior to coating. Remove all oil, grease, dirt, oxide and other foreign material. When weathering is not possible, or the surface has been treated with chromates or silicates, apply a test patch. Allow paint to dry at least one week before testing adhesion. If adhesion is poor, brush blasting is necessary to remove these treatments. Rusty galvanizing requires a minimum of Hand Tool Cleaning. Prime the area the same day as cleaned.

**Mosaics/Ceramic Tiles:** Remove all oil, grease, dirt, oxide and other foreign material. For good product adhesion, gloss surfaces must be sanded dull. The surface should not have high moisture content or efflorescence.

**Concrete and Masonry:** Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days at 24°C. Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids. The surface should not have high moisture content or efflorescence.

**Wood:** Surface must be clean, dry and sound. Remove any oils and dirt from the surface using a degreasing solvent or strong detergent. Sand to remove any loose or deteriorated surface wood and to obtain a proper surface profile. Prime with recommended primer and paint as soon as possible. No painting should be done immediately after a rain or during foggy weather. Knots and pitch streaks must be scraped or sanded and spot primed before full coat of primer is applied. All nail holes or small openings must be properly caulked.

## RECOMMENDED SYSTEMS

The film thicknesses mentioned below refer to Dry Film Thickness (DFT).

**Galvanized Metal:** 1-2 coats of **TILE-CLAD® HIGH SOLIDS**, 60-100 µm

**Concrete:** 1-2 coats of **TILE-CLAD® HIGH SOLIDS**, 60-100 µm

**Wood, including floors:** 1-2 coats of **TILE-CLAD® HIGH SOLIDS**, 60-100 µm

## APPLICATION TOOLS

### Airless Spray:

Pressure: 2400psi  
Hose: 3/8" ID  
Tip: 0.019"  
Filter: 60 mesh  
Dilution: As needed up to 10% by volume

### Conventional Spray:

Gun: Binks 95  
Fluid Nozzle: 66  
Air Nozzle: 69 PB  
Atomization Pressure: 60psi  
Fluid Pressure: 20psi  
Dilution: As needed up to 10% by volume

### Brush:

Brush: Nylon/Polyester or Natural Bristle  
Dilution: As needed up to 10% by volume

### Roller:

Cover: 1/4" – 3/8" woven with solvent resistant core  
Dilution: As needed up to 10% by volume

## APPLICATION

**Thinning/Cleaning:** Thinner 11/11.

**Application Temperature:** Ideal temperature for the application should be between 5-35°C and the relative humidity should not exceed 80%.

Mix contents of each component thoroughly with low speed power agitation. Make certain no pigment remains on the bottom of the cans. Then combine one part by volume of Part A with one part by volume of Part B. Thoroughly agitate the mixture with power agitation. Allow the material to sweat-in as indicated. Re-stir before using. If reducer solvent is used, add only after both components have been thoroughly mixed, after sweat-in. Apply paint at the recommended film thickness.

**Cleaning of Tools:** Remove as much paint as possible from tools and clean immediately with Thinner 11/11.

## PERFORMANCE TIPS

- Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.
- When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.
- Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.
- Excessive dilution of material can affect film build, appearance, and adhesion.
- Do not apply the material beyond recommended pot life. Do not mix previously catalysed material with new.
- In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Thinner 11/11.



**PACKING:** 3.78L, 18.92L.

**COLOUR RANGE:** Please refer to **Sherwin-Williams®** COLOR SPECTRUM colour chart.

**STORAGE:** Store in a dry place, away from direct sunlight and/or extreme temperatures. Shelf life if the can is unopened is 36 months.

**Health  
and Safety  
Measures**

- Keep out of reach of children.
- Apply only in well ventilated areas.
- Flammable liquid and vapor.
- Harmful if inhaled.
- Causes serious eye damage.
- Causes skin irritation.
- May cause an allergic skin reaction.
- May cause cancer.
- May be fatal if swallowed and enters airways.
- May cause respiratory irritation.
- May cause drowsiness or dizziness.
- May cause damage to organs through prolonged or repeated exposure.
- Do not empty into the drains.
- Avoid release to the environment.
- For more information please refer to Safety Data Sheet.

**WASTE MANAGEMENT**

Do not empty surplus paint into the drains, and do not dispose together with household refuse. Advice regarding disposal and collection should be sought from the local authorities.

**PERFORMANCE CHARACTERISTICS**

**Tested System (unless noted otherwise):**

Substrate: Steel

Surface Preparation: SSPC-SP6/NACE 3

1 coat. Recoatable Epoxy Primer at 100-150 µm DFT

1 coat. **TILE-CLAD® HIGH SOLIDS** at 25 µm DFT

Test Name	Test Method	Results
<b>Abrasion Resistance</b>	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	80 mg loss
<b>Adhesion</b>	ASTM D4541	1050 psi
<b>Direct Impact Resistance</b>	ASTM D2794	95 in. lb.
<b>Dry Heat Resistance</b>	ASTM D2485	93°C
<b>Exterior Durability</b>	1 year at 45° South	Excellent, chalks
<b>Flexibility</b>	ASTM D522, 180° bend, 1/4" mandrel	Passes
<b>Moisture Condensation Resistance</b>	ASTM D4585, 100°F (38°C), 1000 hours	Passes, no blistering, rust, or delamination
<b>Pencil Hardness</b>	ASTM D3363	F-H
<b>Salt Fog Resistance</b>	ASTM B117, 2,500 hours	Rating 10 per ASTM D610 for rusting; Rating 10 per ASTM D714 for blistering



**Note 1:** The product is imported in Cyprus by Peletico Ltd, from the Sherwin-Williams® Company, Cleveland, Ohio USA, owner of the Registered\* Trademarks.

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