

## Penntrowel™ Epoxy Primer

### **SELECTION & SPECIFICATION DATA**

**Type** Epoxy primer

**Description**Penntrowel Epoxy Primer is a 2-component, damp surface-tolerant, penetrating epoxy primer

for concrete, steel, or ceramic brick substrates.

**Features** • Damp surface tolerant

• Penetrating for strong adhesion

• Resistant to many aqueous chemicals, oils, fats, milk products, blood and some solvents.

 Seal concrete substrates against outgassing to reduce pinholes and blisters in finish coats

• Enhance adhesion of compatible finish coats to steel and concrete substrates

Saturate reinforcing textile, such as MR

chopped strand fiberglass mat

• Binder for mortar paste used to parge-coat abraded concrete or masonry surfaces

• Primer for 7-day old damp, green concrete

 Wet bonding agent between new and old concrete

Moisture barrier for concrete or masonry

**Limitations** Penntrowel Epoxy Primer cured with Epoxy Cold

Room Hardener for low temperature use is not moisture or damp surface tolerant. For low temperature applications where moisture tolerance is required, substitute Novocoat™

SC1100 FC Concrete Primer.

### **SUBSTRATES & SURFACE PREPARATION**

All Substrates must be clean, sound and free of

contaminants or standing water.

Steel Immersion: SSPC-SP 5 White Metal Blast with a

minimum angular profile of 3 mils.

Non-immersion: SSPC-SP 6 Commercial Blast with a minimum angular profile of 3 mils. SSPC-SP 2 Hand Tool or SSPC-SP 3 Power Tool Cleaning are

suitable for mild environments.

**Concrete** Concrete must be cured 7 days at 75°F (24°C) and

50% relative humidity or equivalent. Prepare surfaces in accordance with SSPC-SP 13 Surface Preparation of Concrete. Voids in concrete may

require filling.

**Ceramic Brick** Masonry must be clean, sound and neutral pH.

or Masonry

**MIXING & THINNING** 

Ratio 3 parts resin to 1-part Penntrowel Epoxy Primer

Hardener by volume, 3.7A: 1B by weight.

5 parts resin to 1 part Epoxy Cold Room Hardener by

volume, 6.25A: 1B by weight.

Mixing Pour one pail of Penntrowel Epoxy Primer Resin into a

clean mixing container. Add one container of Penntrowel Epoxy Primer Hardener to resin and power mix for 3 minutes. Thinning not generally

required.

For cold cure version, pour Penntrowel Epoxy Primer Resin into a clean mixing container. Measure quantity of Epoxy Cold Room Hardener required according to mix ratio and add it to the resin. Power mix for 3

minutes.

**Pot Life** Pot life is shorter at higher temperatures. A larger

volume of mixed material will have a shorter pot life

than a smaller volume.

**Cleanup** Methyl ethyl ketone or xylene

**APPLICATION GUIDANCE** 

Reference Specifications CES-342 Installation of Penncoat<sup>™</sup> Linings

Installation Conditions

Penntrowel Epoxy Primer is formulated for ideal handling at 70°F (21°C). Use when surface, air and material temperatures are between 50°F (10°C) and 80°F (26°C). When temperatures are between 35°F (2°C) and 50°F (10°C), substitute Epoxy Cold Room Hardener. Substrate temperature must be at least 5°F (3°C) above the dew point. Apply to porous substrates as surface temperature is falling to prevent pinholes

Not applicable

and blisters due to outgassing.

**Roller** Short nap roller with solvent-resistant core

**Brush** Stiff bristle scrub brush

**CURE TIME** 

90°F (32°C)

Substrate With Penntrowel Epoxy With Epoxy Cold Temperature Primer Hardener Room Hardener

 35°F (2°C)
 Not applicable
 8 hours

 50°F (10°C)
 16 hours
 5 – 6 hours

 70°F (21°C)
 8 hours
 3 – 4 hours

6.5 hours

Cure times will be longer in areas of high humidity or poor air circulation.



# **Penntrowel™ Epoxy Primer**

### **PACKAGING & ESTIMATING**

Product	Code	Packaging
Penntrowel Epoxy Primer Kit	19676	4 x 1-gal unit case
Penntrowel Epoxy Primer Resin	19675	3-gal (28 lb) pail
Penntrowel Epoxy Primer Hardener	19699	4 x 1-gal (7.6 lb) can case
Epoxy Cold Room Hardener	29447	2.5-gal (20 lb) jerrycan

A 4-gal unit consists of 4 cans of resin and 4 cans of Penntrowel Epoxy Primer Hardener.

A 16-gal unit consists of  $4 \times 3$ -gal pails of resin and 1 case of Penntrowel Epoxy Primer Hardener.

One jerrycan of Epoxy Cold Room Hardener will catalyze 4.5 x 3-gal pails of resin.

# Theoretical Coverage

200 - 250 square feet (18.5 - 23.2 m<sup>2</sup>) per mixed gallon on concrete

325 - 525 square feet (30.2 - 48.8 m<sup>2</sup>) per mixed

gallon at 3 - 5 mils on steel

100 square feet (9.3 m²) per gallon as a saturant for 1-oz. chopped strand fiberglass mat

A gallon of primer mixed with 25-30 lb of Penntrowel L/F Filler-Silica yields about 0.3 cubic

feet of resurfacing mortar.

### Storage & Shelf Life

Maintain products in original packaging and sealed until ready for use. Estimated shelf life is 18 months when stored in a dry area at 70°F (21°C). Actual shelf life may vary with storage

conditions.

If there is any question with respect to the quality of the components, check reactivity prior to use. For assistance consult with ErgonArmor.

### **SAFETY**

Safety Mixes and applications of this product present a

number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data

sheets before using.

**Ventilation** Provide thorough air circulation during and after

application until the material has cured when

used in enclosed areas.

### **TYPICAL PHYSICAL PROPERTIES**

Property	With Penntrowel Epoxy Hardener	With Epoxy Cold Room Hardener
Solids content	100% by weight	87.7% by weight
Density	8.9 lb/gal	9.1 lb/gal
Viscosity, mixed material	1,200-1,400 cps	250-350 cps
Water absorption, ASTM C413	<1%	<1%
Adhesion To concrete	Exceeds concrete tensile strength	Exceeds concrete tensile strength
To brick	Exceeds brick tensile strength	Exceeds brick tensile strength

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