

CE-139 Page 1 of 2 Penntrowel[™] Epoxy Primer

MIXING & THINNING

SELECTION & SPECIFICATION DATA		MIXING & THINNING			
Туре	Epoxy primer	Ratio	3 parts resin to 1 part Penntrov Hardener by volume, 3.7A: 1B l	wel Epoxy Primer by weight.	
Description	Penntrowel Epoxy Primer is a 2-component, damp surface-tolerant, penetrating epoxy primer for concrete, steel, or ceramic brick substrates.		5 parts resin to 1 part Epoxy Co volume, 6.25A: 1B by weight.	old Room Hardener by	
Features	 Damp surface tolerant Penetrating for strong adhesion Resistant to many aqueous chemicals, oils, fats, milk products, blood and some solvents. 	Mixing	Pour one pail of Penntrowel Ep clean mixing container. Add or Penntrowel Epoxy Primer Hard power mix for 3 minutes. Thinr required.	boxy Primer Resin into a ne container of lener to resin and ning not generally	
Uses	 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 chooped strand fiberglass mat 		For cold cure version, pour Per Resin into a clean mixing conta of Epoxy Cold Room Hardener mix ratio and add it to the resin minutes.	nntrowel Epoxy Primer ainer. Measure quantity required according to n. Power mix for 3	
	 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 	Pot Life	Pot life is shorter at higher tem volume of mixed material will I than a smaller volume.	peratures. A larger have a shorter pot life	
	Moisture barrier for concrete or masonry	Cleanup	Methyl ethyl ketone or xylene		
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		APPLICATION GUIDANCE Reference CES-342 Installation of Penncoat Linings			
	tolerance is required, substitute Novocoat SC1100 FC Concrete Primer.	Specifications	Ponetrouvel Enoug Primaric formulated for ideal		
SUBSTRATES & SURFACE PREPARATION		Conditions	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		
All	Substrates must be clean, sound and free of contaminants or standing water.		(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		
Steel	Immersion: SSPC-SP 5 White Metal Blast with a minimum angular profile of 3 mils.		and blisters due to outgassing.		
	Non-immersion: SSPC-SP 6 Commercial Blast with	Roller	Short nap roller with solvent-resistant core		
	Hand Tool or SSPC-SP 3 Power Tool Cleaning are suitable for mild environments.	Brush	Stiff bristle scrub brush		
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.	<u>CURE TIME</u>			
		Substrate Temperature	With Penntrowel Epoxy Primer Hardener	With Epoxy Cold Room Hardener	
		35°F (2°C)	Not applicable	8 hours	
Ceramic Brick or Masonry	Masonry must be clean, sound and neutral pH.	50°F (10°C)	16 hours	5 – 6 hours	
		70°F (21°C)	8 hours	3 – 4 hours	
		90°F (32°C)	6.5 hours	Not applicable	
		Cure times will be longer in areas of high humidity or poor air circulation.			



CE-139 Page 2 of 2

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 x 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 m²) per mixed gallon on concrete	
	325 - 525 square feet (30.2 - 48.8 m ²) per mixed gallon at 3 - 5 mils on steel	
	100 square feet (9.3 m ²) per gallon as 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.	
<u>SAFETY</u>		
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

Rev 01/2021

TERMS AND CONDITIONS OF SALE

While statements, technical information and recommendations contained herein are based on information our company believes to be reliable, nothing contained herein shall constitute any warranty, express or implied, with respect to the products and/or services described herein and any such warranties are expressly disclaimed. We recommend that the prospective purchaser or user independently determine the suitability of our product(s) for their intended use. No statement, information or recommendation with respect to our products, whether contained herein or otherwise communicated, shall be legally binding upon us unless expressly set forth in a written agreement between us and the purchaser/user. For all Terms and Conditions of Sale see ergonarmor.com.

Division of Ergon Asphalt & Emulsions, Inc. | P.O. Box 1639, Jackson, MS 39215-1639 | 601-933-3381 Fax | 601-933-3595 Phone | 877-98ARMOR Toll-Free | ergonarmor.com