



Dampney Protective Coatings

Epodur 793 100% Epoxy Masonry Damp-Proofing/Sealer

Description

A high solids low viscosity 100% solids epoxy formulated for deep penetration into properly prepared concrete surfaces to seal and damp-proof. It is also used as a bonding primer for other primers and finish coatings that will be applied over masonry surfaces.

Recommended Uses

- Seal masonry surfaces against water and chloride penetration.
- A bonding primer for additional coats of primer and finish coats
- Use as a sealer for concrete surfaces
- Low permeability
- Seal spalled concrete
- Application to damp surfaces

Features

- Non-shrinking, tough and durable coating
- Low viscosity, provides deep penetration into properly prepared concrete
- Excellent resistance to strong chemicals
- Excellent abrasion and impact resistance
- 100% solids – No VOC Content

Not Recommended For

- Application to surfaces with temperature below 50°F (10°C) curing will not take place.
- Application to surfaces exhibiting vapor transmission or hydrostatic pressure.
- Application to new concrete that has not cured for 28 days minimum.
- Application to on-grade concrete lacking an under-slab barrier when used as sealer.

Surface Preparation

All masonry surfaces must be clean, sound and free of contaminants that will reduce the penetration of Epodur 793 Sealer/Primer. Bond failure can be expected if surface preparation is inadequate. All masonry surfaces must be free of all wax, grease, oils, fats, soil, loose or foreign matter, and laitance. Remove all unsound and deteriorated concrete by scarifying or abrasive blasting.

New and aged concrete

Concrete must be cured a minimum of 28 days prior to coating. Remove all sealers, curing compounds and form release agents by mechanical methods.

Remove oil, grease, dirt and loose materials by using warm water and a heavy duty detergent and a scrub brush or steam cleaning with a detergent followed by a power wash all clean surfaces using clean fresh water. Remove laitance, curing compounds and form release agents, efflorescence, etc. by abrading surfaces. After cleaning all surfaces must show open pores throughout and have a sand paper texture after cleaning. All indoor/outdoor on grade substrates must be tested for the presence of excess moisture before application of Epodur 793 by following using the plastic sheet method described in ASTM D 4263. If excess moisture is present allow additional drying time.

Mixing

Epodur 793 has a mixing ratio of 2 Parts A to 1 Part B by volume. Mix thoroughly with a low-speed jiffy type mixer until mixture is of a uniform color. Do not mix more material than can be used within the pot life period.

Pot Life

After mixing the pot life is 15 minutes at 75°F (23.9°C); less at higher temperatures

Curing

A surface coated with Epodur 793 will be tack free in 4-6 hours at 75°F (23.9°C).

Application Guidelines

To seal concrete slabs:

Immediately after mixing, pour Epodur or brush, allow coating to penetrate surface. Using a long handled paint roller (with a 3/4" nap roller) back roll to improve leveling. Do not allow coating to puddle. Remove any excess piddling to prevent excessive film build-up. Allow the Epodur 793 set on the surface for 3 hrs at 75°F (23.0°C) before application of the primer and finish coats.

Curing and Set Time at 75°F (23.9°C)

Initial set time: 4-6 hours; Abrasion and impact resistance: 12 hours; chemical splash and spill: 48 hours; continuous immersion: 7 days, full bond strength: 3 days.

Cleanup

Immediately after application, clean tools, equipment and surfaces contaminated by coating residues with hot soapy water. Then flush contaminated surfaces with hot water. Solvent cleaning is not generally recommended because of safety hazards and special precautions.

Storage

Store coating components in a shelter that is dry with a temperature control from 50°F - 90°F.

Precautionary Information

Warning: Flammable liquid and Vapor

Keep away from heat, sparks and flame. Vapors may cause flash fire. Do not breathe vapors or spray mist. Avoid contact with eyes, skin and clothing. Use with adequate ventilation during mixing and application.

Wear an appropriate, properly fitted organic vapor cartridge-type respirator (NIOSH approved) during and after application unless air monitoring demonstrates vapor/mist levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Wash thoroughly after handling. Wear protective gloves, chemical safety goggles and impervious protective clothing. Use skin cream. In confined spaces it is required to use a positive pressure supplied-air respirator (NIOSH approved). Use explosion-proof lights and electrical equipment. Use only nonsparking tools and equipment. Wear conductive and nonsparking footwear. Make certain all electrical equipment is grounded. Observe all safety precautions and follow procedures described in OSHA regulations.

See Material Safety Data Sheet (MSDS) for complete precautionary and disposal information.

If instructions and warnings cannot be strictly followed, do not use this product.

FOR INDUSTRIAL USE ONLY

Physical Properties

Property	Epodur 793		
Generic Type	100% Solids Epoxy		
Color	Amber		
Finish	Gloss		
Number of Components	Two (2)		
Mixing Ratio	2 Parts (A) to 1 part (B)		
Temperature Resistance (Dry/Wet)			
Continuous	120°F		
Intermittent	150°F		
Percent solids by Volume	100%		
Dry Film Thickness	5.0 to 6.0 mils		
Wet film Thickness	5.0 to 6.0 mils		
Theoretical Coverage	1,604 sq. ft. per gallon		
Application Temperature	Normal	Minimum	Maximum
Ambient Air	65-85°F(18-29°C)	50°F(10°C)	100°F(38°C)
Substrate	65-85°F(18-29°C)	50°F(10°C)	120°F(49°C)
Coating Material	65-85°F(18-29°C)	55°F(10°C)	90°F(32°C)
Humidity	20-75%	0%	85%
Drying Time	50°F(10°C)	70°F(21°C)	
To Touch	12 hrs	4 hrs	
To Recoat	< 24 hrs	< 24 hrs	
Final Cure	72 hrs	48 hrs	
Non-immersion Service	48 hrs		
Immersion Service	7 days		
Pot Life	15 minutes at 70°F(21°C)		
Flash Point (Mixed)			
Part A (Base)	230°F		
Part B (Activator)	200°F		
Shelf Life	1 Year		
VOC (Volatile Organic Content)	0 lb/gal		

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