

Ply-Seal® Epoxy Paste

Technical Bulletin

Ply-Seal® Epoxy Paste is a 100% solids, two-component, moisture insensitive, lightweight, thixotropic, waterproof, epoxy patching material designed for overhead & vertical applications. It has excellent adhesion to most construction materials. Due to its lightweight design it may hang 2" overhead in one lift without dripping. Meets ASTM C-881, Type I & III, Grade 3, Class B, & C.

Key Features

- Very good solvent and chemical resistance
- Excellent adhesion to various substrates
- Excellent barrier against moisture
- Resistant to freeze-thaw changes
- Excellent bond strength
- Excellent workability
- Strong and flexible

Product Uses

- Pick-proof caulk
- Industrial adhesive
- Overhead and vertical patching
- Anchoring bolts, dowels, and posts
- Surface seal for epoxy injection
- Bonding cured concrete to cured concrete
- Repairing spalled joint edges and surfaces

Surface Prep

New concrete should cure 80% of designed strength prior to application. A clean, dry, and rough substrate free of contaminants is best to receive the Ply-Seal® Epoxy Paste. For best results, grit blast to achieve this surface. Steel surfaces should be grit blasted to SSPC-10, near white finish, immediately before the application of the Ply-Seal® Epoxy Paste. Specialty metals may require a primer. Please contact the supplier for directions in such applications.

Mixing

Stir individual components prior to mixing together if settling has occurred. Mix according to specified mix ratio with low-speed drill for 1-2 minutes or until color is uniform. May also be mixed by hand using a trowel or putty knife for smaller batches.

Application

Ply-Seal® Epoxy Paste may be applied by trowel, caulk gun, or pump. Minimum application temperature is 50°F.

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Physical Data

Appearance @ 25°C			
	Part “A”	Part “B”	Mixed
Color	White	Black	Gray
Viscosity	Thixotropic	Thixotropic	Thixotropic
Wt./gal., lb	8.8 ± 0.1	7.4 ± 0.2	8.1 ± 0.1
Ratio & Cure			
Mix Ratio	1 Parts “A”	1 Part “B”	By Volume
	100 “A”	88 “B”	By Weight
Gel Time	40—80 Min @ 25°C (200 g Mass)		
Initial Set	2—5 Hrs @ 25°C (Depending on Mass)		
Initial Cure	8—12 Hrs @ 25°C (Depending on Mass)		
Physical Properties			
Percent Elongation	55—65		ASTM D638
Tensile Strength, psi	1100 min.		ASTM D638
Bond Strength, psi (To Concrete)	450 Min.		ASTM D624
Water Absorption	0.25% by Weight Max.		
Shore D Hardness	45 ± 5		ASTM D2240

These are typical cured properties and should not be used for specifications

Packaging: 1 gal. A + 1 gal B = 2 gal. unit; 3 units/case
Shelf Life: Three years in the original, unopened containers
Storage: Store between 60–95°F; keep from freezing
Yield: A 2-gallon unit will yield 462 cubic inches or 150' at 1/4" x 1" in control (saw-cut) joints.

Please refer to product labels and Safety Data Sheets for complete information regarding product hazards, prevention (including proper PPE), response, storage, and disposal.