

Ply-Seal® Epoxy Paste

Technical Bulletin

Ply-Seal® Epoxy Paste is a 100% solids, two-component, moisture insensitive, lightweight, thixotropic, waterproof, epoxy paste patching material designed for overhead and 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 C881, Type I & III, Grade 3, Class B and 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

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, sandblast to achieve this surface. Steel surfaces should be sandblasted 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.

Physical Data

Appearance @ 25°C			
	Part "A"	Part "B"	Mixed
Color	White	Black	Gray
Viscosity	Thixotropic	Thixotropic	Thixotropic
Wt./gal., lb	9.0 ± 0.2	8.0 ± 0.1	8.5 ± 0.1
Ratio & Cure			
Mix Ratio	1 Parts "A"	1 Part "B"	By Volume
	100 "A"	89 "B"	By Weight
Gel Time	40-60 Min @ 25°C		
Initial Set	2-5 Hrs @ 25°C (Depending on Mass)		
Initial Cure	8-12 Hrs @ 25°C (Depending on Mass)		
Physical Properties			
Percent Elongation	15-20	ASTM D638	
Tensile Strength, psi	3500 ± 500	ASTM D638	
Bond Strength, psi (To Concrete)	450 Min.	ASTM D624	
Water Absorption	0.25% by Weight Max.		
Shore D Hardness	70 Min.	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 77' at 1/4" x 2"

FOR PROFESSIONAL USE ONLY

Protective gloves, clothes, and splash-resistant glasses are recommended. Direct contact with skin should be avoided as it may cause skin irritation. Fatal if taken internally. Keep from open flame.

PC2622

Limited Warranty: Polyset Company Inc. makes no warranty, expressed or implied, including any warranty of merchantability of fitness for a particular purpose. The sole remedy of Purchaser for any claim concerning this product, including, but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price, at the discretion of Polyset Company Inc. Any claims concerning this product shall be submitted in writing within one year of the delivery date of this product to Purchaser and any claims not presented within that period are waived by Purchaser. IN NO EVENT SHALL POLYSET COMPANY INC. BE LIABLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDES LOSS OF PROFITS) OR PUNITIVE DAMAGES. Copyright © 2016 Polyset Company, Inc. All rights reserved. Revised 8/16.