

Ply-Bonder FP (Fresh Pour)

Technical Bulletin

Ply-Bonder FP is a 100% solid, two component, modified epoxy adhesive designed to bond new, freshly poured concrete (plastic) to existing, old, or cured concrete, steel, and difficult to dry, damp concrete surfaces. Meets ASTM C881, Type II, Grade 1 & 3, Class B & C.

Key Features

- Low viscosity, sprayable
- Excellent barrier against moisture
- Excellent barrier against chloride ions
- High Modulus of elasticity
- Workable to 45°F

Uses

- Bond fresh concrete to existing concrete
- Bonding agent for: **Ply-Seal®**, **Ply-Seal® XE**, **Evazote**, and other cellular plastic glands to concrete, steel, and other construction materials.
- Installation of anchor bolts in damp conditions

Surface Prep

For best results, sandblast the existing concrete surface to remove oils, grease, loose dirt, and particles. Apply the **Ply-Bonder FP** prior to pouring the fresh concrete. Steel surfaces should be sandblasted to SSPC-10, near white finish, immediately before the application of the **Ply-Bonder FP**.

Mixing

Stir individual components prior to mixing together. Mix according to specified mixing ratio with low-speed drill for 1-2 minutes or until color is uniform.

Application

Ply-Bonder FP may be applied by suitable spray equipment, roller, trowel, or by gloved hands. Apply at a rate of approximately 160-200 square feet per gallon.

Shelf Life: Two (2) years in original unopened containers

Storage: Store between 60-95°F, keep from freezing

Packaging: 2 gal. **A**, 1 gal. **B** = 3 gal. unit; 3 units/case

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 © 2020 Polyset Company, Inc. All rights reserved. Revised 1/13/2020

Physical Data

Appearance @ 25°C			
	Part "A"	Part "B"	Mixed
Color	Off White	Black	Gray
Viscosity, cps	10000 ± 2000	400 ± 50	2000 ± 500
Wt./gal., lb	12.2 ± 0.1	7.85 ± 0.15	10.8 ± 0.1
Ratio & Cure			
Mix Ratio	2 Parts "A"	1 Part "B"	By Volume
	100 "A"	33 "B"	By Weight
Gel Time	Gel Time @ 25°C		2-3 Hrs.
Concrete Contact Time	2-4 Hrs. @ 25°C		
Initial Cure	18-24 Hrs. @ 25°C		
Physical Properties			
Compressive Strength, psi	8500,± 500	ASTM D695	
Percent Elongation	1-3	ASTM D638	
Tensile Strength, psi	3500 ± 500	ASTM D638	
Bond Strength, psi min.	2600	ASTM C882	
Water Absorption	0.25% by Weight Maximum		
Shore D Hardness	80 Mins.	ASTM D2240	

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

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 away from open flame.

PC2602