

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

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. | 500 psi | ASTM D624 | |
| | 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.

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