

Ply-Bonder (Beige)

Ply-Bonder is a 100% solid, moisture insensitive, two-component, modified epoxy adhesive, developed for the construction industry for bonding various construction materials to cured concrete in high-stress applications. The material has excellent adhesion to steel, concrete, wood, and other construction materials. Meets ASTM C881, Type I & II, Grade 2, Class B & C.

Key Features

- Excellent adhesion to various substrates
- Excellent barrier against moisture and Chloride ions
- Very good solvent and chemical resistance
- Resistant to UV and ozone exposure
- Safe for potable water applications
- Resistant to freeze-thaw changes
- Useable to 45 F and rising
- Fast cure

Uses

- Bonding agent for Ply-Seal® XE Beige and many other Ply-Seal® brand products, as well as other cellular plastic glands to concrete, elastomeric concrete, steel, and other construction materials.
- Adhering anti-skid grit to hardened surfaces
- Bonding cured concrete to cured concrete

Surface Prep

For best results, sandblast all surfaces to receive the **Ply-Bonder**. New concrete should cure 80% of designed strength prior to application. Steel surfaces should be sandblasted to SSPC-10, near white finish, immediately before the **Ply-Bonder** application. Brass, aluminum, galvanized steel, and other specialty metals may require an acid etching primer. Please contact the supplier in such applications.

Mixing

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

Application

Ply-Bonder may be applied by suitable spray equipment roller, trowel, or by gloved hands. Apply at a rate of approximately 40 square feet per gallon.

Technical Bulletin

Physical Data

Appearance @ 25°C						
	Part "A"		Part "B"		Mixed	
Color	Off WI	nite	Tan		Beige	
Viscosity	Thixotr	opic	Thixotropic		Thixotropic	
Wt./gal., lb	12.25 ±	0.1	10.6 ± 0.1		12.0 ± 0.1	
Ratio & Cure						
Mix Ratio	4 Par	ts "A"	1 Part "B"		By Volume	
	100	"A"	22 "B"	22 "B"		
Gel Time		Gel Time @ 25°C			20-40 Min	
Initial Set			°C			
Initial Cure			5°C	;		
Physical Properties						
Compressive, psi		9000,± 1000			ASTM C579	
Percent Elongation		1-3			ASTM D638	
Tensile Strength, psi		4000 ± 500			ASTM D638	
Bond Strength, psi min.		2600			ASTM C882	
Water Absorption		0.25% by Weight Max.				
Shore D Hardness			80 Min.		ASTM D2240	

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

Packaging: 1 gal. A, 1 qt. B = 1 gal. unit; 4 units/case Shelf Life: 2 years in the original, unopened containers Storage: Store between 60-95°F; keep from freezing

FOR PROFESSIONAL USE ONLY

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

PC2636

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