

Ply-Bonder

Technical Bulletin

Ply-Bonder is a 100% solids, 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 C-881, Type I & II, Grade 2, Class B & C.

Key Features

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

Uses

- Bonding agent for, EVAZOTE®, Ply-Seal® Ply-Seal® XE, and 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 application of the **Ply-Bonder**. Brass, aluminum, galvanized steel and other specialty metals may require an acid etching primer. Please contact the supplier for directions in such applications.

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

Physical Data

Appearance @ 25°C			
	Part "A"	Part "B"	Mixed
Color	Off white	Black	Gray
Viscosity	Thixotropic	Thixotropic	Thixotropic
Wt./gal., lb	12.25 ± 0.1	10.6 ± 0.1	12.0 ± 0.1
Ratio & Cure			
Mix Ratio	4 Parts "A"	1 Part "B"	By Volume
	100 "A"	22 "B"	By Weight
Pot Life	Pot Life @ 25°C		20-40 Min
Initial Set	2-4 Hrs. @ 25°C		
Initial Cure	8-12 Hrs. @ 25°C		
Physical Properties			
Compressive Strength, psi	9000 ± 1000	ASTM D695	
Percent Elongation	1-3	ASTM D638	
Tensile Strength, psi	4000 ± 500	ASTM D638	
Bond Strength psi min.	2600	ASTM C-882	
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
or in dual Cartridges (940 ml) with spray tips

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 recommended. Direct contact with skin should be avoided as it may cause skin irritation. Fatal if taken internally. Keep from open flame.

PC2601

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