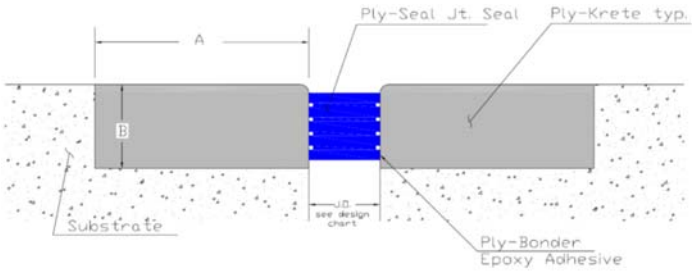
Technical Bulletin

Ply-Krete® FS

Ply-Krete® FS is a fast-setting, low-velocity, two-component 100% solid, modified polyurethane elastomeric concrete. It is designed as an expansion joint header to preserve and protect concrete decks and substructures by preventing water absorption and minimizing chloride intrusion. **Ply-Krete® FS** is a fast-setting **Ply-Krete®** elastomeric concrete, allowing traffic to return in as little as two hours.



Key Features

- Flexible, but tough
- High abrasion resistance
- Easy mixing and fast setting
- Excellent impact resistance
- Excellent thermal shock resistance
- Very good solvent and chemical resistance
- Ideal for quick repairs to expansion joints
- Excellent adhesion to various substrates
- Resistant to UV and ozone exposure
- Resistant to freeze-thaw changes
- Economical with high quality

Other Applications

- Pothole patching material in concrete
- Repairing control joints in concrete decks and roadways
- Control joints in warehouse floors

Shelf Life: One year in the original, unopened containers

Storage: Store between 65–90°F

Physical Data Typical properties, not intended for specifications

Appearance @ 25°C			
	Part "A"	**Part "B"**	**Mixed**
Packaging	1 Can	1 Can	With 1 Bag Agg
Color	Black	Lt. Brown	Black
Viscosity, cps	550 ± 25	250 ± 50	-
Wt./gal., lb	8.1 ± 0.1	10.2 ± 0.1	-

Ratio & Cure			
Mix Ratio	2 Part "A"	1 Part "B"	By Volume
	100 "A"	63 "B"	By Weight
Mix A & B well, then add supplied aggregate			
Cure	Gel Time @ 25°C		8 -12 Min.
Initial Cure	2 Hrs @ 25°C	With Supplied Aggregate	

Properties with Aggregate (Aggregate Type Affects Results)		
Compressive Strength, psi	3000 Min.	ASTM C579
Brittleness ± 1 ft-lb	7 ft-lb Min.	Ball Drop

Properties with Binder Only		
Tensile Strength, psi	1650 ± 200	ASTM D638
Tear Strength, pli	150 ± 25	ASTM D624
Shore D Hardness	45 ± 5	ASTM D2240
Bond Strength To Wet Concrete	450 psi	Tex 618-J

Ply-Krete® FS is available in three options: (1) as the standard Ply-Krete® FS, (2) with a separately packaged accelerator for onsite versatility, or (3) as a **Cold Cure** where the physical properties are the same as above except the cure temperatures would be at 50°F vs 25°C.

Packaging: Standard stock kits yield 0.52 cu. ft. per kit. Larger size packaging is available upon request.

For proper installation instructions please, refer to the "Ply-Krete® Installation Instructions" Technical Bulletin. For health and safety information, please refer to the MSDS.

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