

Ply-Seal® FB

Ply-Seal® FB, is a pre-formed, low-density, closed-cell, cross-linked, Ethylene Vinyl Acetate (EVA), polyethylene copolymer. **Ply-Seal® FB** also contains Ultra Violet Inhibitors (Light Stabilizers) for superior UV resistance. Designed as a flexible, waterproof, chemical-resistant, expansion joint seal, it is used in bridges, car parks, seismic applications, waste water treatment plants, precast members, and many other structures where a waterproof joint seal is required. **Ply-Seal® FB** is compatible with construction materials and resistant to abrasion, oxidation, oils, gasoline, salt, and other materials that may come in contact with the surface. The excellent physical performances combined with lower costs makes this an ideal seal for waterproofing expansion joints in most structures at an economical price. Meets NYSDOT 705.08 and conforms to ASTM D1056, Type 2, Class B, Grade 2 and 3.

Key Features

- Handles 30% tension, 60% compression
- Weather & UV resistant – UV Inhibitor added
- Intersections and splices may be field-welded
- Quick and efficient field installations
- Solvent and chemical resistance
- Not affected by extreme cold

Uses

Waterproof Expansion-Contraction Joint Seal in: bridges, car parks, tunnels, waste water treatment plants, and interior/exterior commercial structures, above and below grade applications.

Enhanced Bond Line Design

Ply-Seal® FB seals are manufactured with grooves along the bond surface running the length of the joint. The grooves are approximately 1/8" wide by 1/8" deep and spaced between 1/4" and 1/2" apart. Splicing of the seal is performed using the heat-welding method.

Installation

Ply-Seal® FB is installed with **Ply-Bonder**, a 2-part epoxy, on both sides of the substrate and both sides of the **Ply-Seal® FB**. The seal is installed under compression (see design chart). Please refer to the Joint Seal Installation Instructions for proper installation procedures, including proper surface preparation.

Physical Data

Property	Value	ASTM D3575
Density	2.7–3.1 pcf	Suffix W
Compressive Strength @ 25% & @ 50%	Min 9 psi @ 25% Min 15 psi @50%	Suffix D
Elongation	255% Min	Suffix T (412)
Tensile Strength	55 psi Min	Suffix T (412)
Water Absorption	< 0.02 lb/ft ²	Suffix L
	3% vol/vol Max	ASTM D545
Weathering	No Deterioration after 10 years	AASHTO T-42
UV Resistance	Excellent	Light Stabilizers Added
Chemical Resistance	Excellent	Polyethylene Base

Ply-Seal® FB Joint Material Design Chart

Model Number	Jt. Gap (in.) @ 60°F	Rec.* Seal Size (w x d)	Movement Range (in.)
#1.38	1	1 3/8 x 2	0.5 - 1.8
#1.63	1 1/4	1 5/8 x 2	0.6 - 2.1
#2.00	1 1/2	2 x 2	0.8 - 2.6
#2.38	1 3/4	2 3/8 x 2	0.9 - 3.1
#2.75	2	2 3/4 x 2	1.1 - 3.6
#3.00	2 1/4	3 x 2 1/2	1.2 - 3.9
#3.25	2 1/2	3 1/4 x 2 1/2	1.3 - 4.2
#3.50	2 3/4	3 1/2 x 2 1/2	1.4 - 4.5
#4.00	3	4 x 3	1.6 - 5.2
#4.50	3 1/2	4 1/2 x 3	1.8 - 5.8
#5.00	4	5 x 3 1/2	2.0 - 6.5

Packaging: Fabricated per project requirements

Storage: 95°F, Maximum Storage Temperature

Shelf Life: Unlimited When Stored Properly

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