

Ply-Seal® XE

Technical Bulletin

Ply-Seal® XE is a pre-formed, low-density, closed-cell, cross-linked, nitrogen blown, Ethylene Vinyl Acetate (EVA), polyethylene copolymer material. **Ply-Seal® XE** is used as a flexible joint seal that is waterproof and chemical resistant. **Ply-Seal® XE** is compatible with construction materials and resistant to abrasion, oxidation, oils, gasoline, de-icing, salt, and other materials that may come in contact with the surface. Its standard color is gray and it conforms to ASTM D1056, Type 2 Class B, Grade 2.

Key Features

- Intersections and splices; field-welded quick and easy
- Weather and UV resistant—UV Inhibitor added
- Handles 30% tension and 60% compression
- Handles 100% vertical and horizontal shear
- A monolithic waterproof system
- Solvent and chemical resistance
- Not affected by extreme cold
- Hydrostatic Resistant to 70'
- Bonds to most substrates

Uses

Waterproof expansion/contraction joint seal ideal for bridges, car parks, tunnels, waste water treatment plants, and interior/exterior commercial structures.

Enhanced Bond Line Design

Ply-Seal® XE 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 inch apart. Splicing of the seal is performed using the heat-welding method.

Installation

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

Packaging: Fabricated per project requirements

Shelf Life: Unlimited

Storage: Maximum storage temperature: 95°F

Physical Data

Property	Value	ASTM D3575
Density (Nominal)	3.0 pcf ± 0.3	Suffix W
Compressive Strength	6 psi @ 25% 15 psi @ 50%	Suffix D
Elongation	255% ± 10%	Suffix T
Tensile Strength	120 psi ± 12 psi	Suffix T
Tear Strength	17 pli ± 3 pli	Suffix G
Compression Set 22 Hrs. @ 50%	9% @ 24 Hrs. Rcvy (13% @ 2 Hrs. Rcvy)	Suffix B
Water Absorption	< 0.03 lb/ft ² 3% Vol/Vol Max	Suffix L
Weathering (AASHTO T42)	No Deterioration within 10 Years	

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

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