

# Ply-Seal® XE Beige

## Technical Bulletin

**Ply-Seal® XE Beige** is a pre-formed, low-density, closed-cell, crosslinked, nitrogen blown Ethylene Vinyl Acetate (EVA) polyethylene copolymer material. **Ply-Seal® XE Beige** is a flexible joint seal that is waterproof and chemical resistant. The beige color product is an ideal expansion joint seal for bridges, car parks, waste water treatment plants, and many other commercial structures where a waterproof joint seal is required. **Ply-Seal® XE Beige** contains a **Hindered Amine Light Stabilizer (HALS)** for added UV resistance. The material is also resistant to abrasion, oxidation, oils, gasoline, salt, and other materials that may come in contact with the surface. Conforms to ASTM D1056, Type 2 Class B, Grade 2.

### Key Features

- Handles 30% tension and 60% compression
- Handles 100% vertical and horizontal shear
- Weather and UV resistant—UV Inhibitor added
- Intersections and splices may be field-welded
- Quick and easy field installations
- A monolithic waterproof system
- Solvent and chemical resistance
- Not affected by extreme cold
- Hydrostatic resistant to 70'

### Uses

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

### Enhanced Bond Line Design

**Ply-Seal® XE Beige** 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

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

**Packaging:** Fabricated per project requirements

**Shelf Life:** Unlimited / **Storage:** Max. storage temperature: 95°F

## Physical Data

Property	Value	ASTM Test
Density (Nominal)	3.0 pcf ± 0.3	D3575 Suffix W
Compressive Strength	6 psi @ 25% 15 psi @ 50%	D3575 Suffix D
Elongation	255% ± 10%	D3575 Suffix T
Tensile Strength	120 psi ± 12 psi	D3575 Suffix T
Tear Strength	17 pli ± 3 pli	D3575 Suffix G
Compression Set 22 Hrs. @ 50%	9% @ 24 Hrs. Rcvy (13% @ 2 Hrs. Rcvy)	D3575 Suffix B
Water Absorption	< 0.03 lb/ft <sup>2</sup> 3% Vol/Vol Max	D3575 Suffix L
Recovery	99%	ASTM D545
Extrusion	< 0.25"	ASTM D545
Weathering (AASHTO T42)	No Deterioration within 10 Years	

## 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 - 6.5

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