

Ply-Seal® FG

Technical Bulletin

NYS DOT 705.08 Closed Cell Foam Joint Seals

Ply-Seal® FG is a pre-formed, low-density, closed cell, cross-linked, polyethylene material with EVA for added memory and consistency during expansion and compression. **Ply-Seal® FG** is used as a flexible joint seal that is waterproof and chemical resistant. The product is used to form and seal joints between concrete pours and is an ideal joint seal for bridges, car parks, waste water treatment plants, precast members, and many other structures where a waterproof joint seal is required. **Ply-Seal® FG** 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. Conforms to ASTM D1056, 2B2 and NYS DOT 705.08 approved

Key Features

- Handles 25% tension and 50% compression
- Weather and UV resistance - UV inhibitor added
- Intersections and splices may be field-welded
- Quick and efficient field installations
- Solvent and chemical resistance
- Not affected by extreme cold
- Available in most sizes and shapes

Uses

- Waterproof joint seal and grout plug in precast members
- Additional backup for expansion/contraction joint seals in: bridges, car parks, tunnels, waste water treatment plants, and interior/exterior commercial structures
- Isolation joint seal at bridge/approach and pressure-relief joint seal

Recommended Adhesives: Against cured concrete and other construction materials use **Ply-Bonder** or **Ply-Bonder FP**

Packaging: Fabricated per project requirements

Shelf Life: Unlimited

Storage: Maximum storage temperature: 95°F

Physical Data (with Skin/Hide Removed)

Property	Value	ASTM D3575
Density (Nominal)	3.0 pcf Max	Suffix W
Compressive Strength	5 psi @ 25% 14 psi @ 50%	Suffix D
Elongation	275% ± 10%	Suffix T
Tensile Strength	70 psi ± 12 psi	Suffix T
Tear Strength	12 pli ± 3 pli	Suffix G
Water Absorption	< 0.03 lb/ft ²	Suffix L
	3% Vol/Vol Max	ASTM D545
Compression Set @ 50% for 22 Hrs.	14.5%	ASTM D1056 Suffix B
Extrusion (with 3 Sides Restrained)	< 0.25" @ 50% compression	ASTM D545

Installation

Ply-Seal® FG may be installed with **Ply-Bonder** (2-part epoxy) on both sides of the material for a waterproof seal or set into place prior to pouring it against concrete. The foam forms a joint gap that may be sealed above with a sealant or other joint system. **Ply-Seal® FG** may be ordered with a tear-away top section after concrete cures, providing the proper depth for succeeding joint sealants or systems.

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