



**POLYCOAT
PRODUCTS**

A Division of American Polymers Corp.

TECHNICAL DATA SHEET

POLY-CAULK® JF-85

Semi-Ridged Polyurea Joint Filler

Product Description

Poly-Caulk® JF-85 is a self-leveling, 100% solids, aromatic two-component polyurea joint filler. Poly-Caulk® JF-85 is designed for 15-25% movement of an installed joint width. A minimum of 28 days is recommended for concrete to effectively cure prior to installing joint filler. Poly-Caulk® JF-85 can be used to fill interior random cracks, control joints or new construction joints on horizontal concrete surfaces.

Features

- Rapid Cure
- 1:1 Mix Ratio
- 100% Solids
- 80+ Shore A Harness
- Moderate Elongation
- No VOCs
- Pick Proof
- Resists Jet Fuel
- Suitable for -40°F to 200°F+ (-40 to 93.3°C) conditions
- Will Not Smear

Typical Uses

- Airport Terminals
- Big Box / Wholesale Clubs
- Correctional / Prisons
- Food-Processing Facilities
- Light-Industrial Facilities
- Polished Concrete

Packaging

600-ml Cartridge: 300 ml Side-A 300ml Side-B packaged as a dual tube cartridge. Cartridges sold in cases of 4 or 10.

10-Gallon Kit: one 5 gallon (18.9 liter) pail of Side-A and one 5 gallon (18.9 liter) pail Side-B

Color

Concrete Grey

Coverage

The figures are estimated coverage rates and can vary on the joint conditions. The above numbers allow for 10% material waste due to overfilling.

Mixing

Poly-Caulk® JF-85 is packaged in dual pack cartridges. It should be extruded with a pneumatic pump gun to insure constant and consistent pressure and even mixing during application. A pneumatic pump gun will also increase the speed of application and reduce application fatigue resulting in more efficient application.

Application

Performance and adhesion are directly related to preparation. Prior to installation the joint sidewalls must be freshly abraded with a clean-out saw equipment with a diamond blade and


Technical Data (Based on Draw Down Film)

Mix Ratio by Volume	1A : 1B
Specific Gravity, Side-A	1.11 ± 0.1
Side-B	1.01 ± 0.1
VOC	0%
Gel Time, ASTM D1640	60-90 seconds
Tack Free Time, ASTM D1640 at 77°F (25°C), 50% R.H.	2-3 minutes
Open to Foot Traffic, ASTM D1640	15-20 minutes
Hardness, ASTM D2240	>80 ± 5 Shore A
Tensile Strength, ASTM D638, Type IV	>800 ± 50 psi 5.52 ± 0.3 MPa
Elongation, ASTM D638, Type IV	>240 ± 50%
Tear Strength, ASTM D624	>400 ± 5 pli 70.1 ± 0.8 kN/m
Adhesion to Concrete (psi) ASTM D4541	>300 ± 50 psi 2.07 ± 0.3 MPa
Tabor Abrasion, mg wt. loss (1000 g, 1000 revs, H-18) ASTM D4060	>375
Total Solids by Weight, ASTM D2369	100%
Total Solids by Volume, ASTM D2697	100%

Linear Feet Per Gallon					
Depth of Joint	Width of Joint				
		1/4"	1/2"	3/4"	1"
	1/4"	249	138	92	64
	1/2"	138	69	45	34
	3/4"	92	45	30	23
	1"	64	34	23	17

Linear Feet Per 600 ml					
Depth of Joint	Width of Joint				
		1/4"	1/2"	3/4"	1"
	1/4"	32	24	16	11
	1/2"	24	11	8	6
	3/4"	16	8	5	3
	1"	11	6	3	2

The values stated in this technical data sheet are produced under controlled laboratory conditions.



then vacuumed clean to exposing clean, dust free edges to maximize adhesion. For rough or broom finished concrete it is recommended to avoid overfilling the joint as shaving could be difficult. For smooth non-densified concrete, a stain prevention product / method should be considered to prevent etching.

Material Installation Temperature: 70°F or greater (21°C)

Exposure Temperature: -40°F to 200°F (-40°C to 93.3°C)

Cleanup

Cured product may be disposed of without restriction. Mix excess Side-A with Side-B material and allow to cure. Check local, state and federal laws before disposing of material.

Storage

Poly-Caulk® JF-85 should be stored at room temperature, 60-95°F (15-35°C).

Poly-Caulk® JF-85 has a shelf life of one (1) year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

Safety

For in-depth information on product safety and precautions, please review the product SDS sheets. Prior to using the product, ensure that you have the proper personal protection equipment (PPE) available. This includes but is not limited to, the following items:

- Safety Glasses With A Splash Shield
- Minimum Organic Cartridge Respirator
- Rubber or Nitrile Gloves
- Disposable or Reusable Long Sleeve Overalls
- Rubber or Leather Boots

Always be sure to follow the precautions listed below when using the material:

- Do Not Use Near High Heat or Open Flame
- Do Not Take Internally
- Keep Out of Reach of Children

Limitations

Poly-Caulk® JF-85 should not be used to fill exterior cracks, control joints, or construction joints if deck or slab movement from thermal cycling is expected. This product is not recommended for use under non-breathing, resilient, or polymer flooring systems. Poly-Caulk® JF-85 is an aromatic-based polyurea. Discoloration from exposure to ultraviolet

light may occur; however, the physical properties remain unaffected.

Warning

This product contains Isocyanates and Curatives.

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