

Product Description

Poly-Caulk® PX27GG (Gun Grade) is a two component, 1:3 (A:B) ratio by volume, non-sag, high solids polyurethane sealant.

Features

- High Solids
- Cured Material Remains Flexible, Even in Cold Temperatures
- Flexible
- Odorless

Typical Uses

Poly-Caulk® PX27GG is used on interior and exterior horizontal concrete surfaces, to repair random cracks, control joints, and other areas where down time is limited.

- Airports
- Bridge Headers
- Industrial and Manufacturing Facilities
- Parking Garage Decks
- Saw/Utility Cuts
- Spalls
- Truck Aprons

Packaging

- 1.5-gallon kit** One ½ gallon can, net fill 0.375 gallons (1.42 liters) of Side-A and
One 2 gallon pail, net fill 1.125 gallons (4.25 liters) of Side-B

Color

Concrete Grey

Coverage

Coverages and yields shown do not include allowances for loss or waste and variations in job conditions. Each user must establish their own factors for loss from experience.

Surface Preparation

Allow concrete to cure 28 days before installation.

All joints must be clean and dry prior to installing Poly-Caulk® PX-27GG. If joint is damp, dry with heat torch.

Remove all dust from the concrete pores prior to installing Poly-Caulk® PX27GG.

Backer rod should be used in control joints, the recommended depth is not greater than 25% of the total depth of the slab.

Construction joints are to be filled to full depth using no backer rod or silica sand.

To repair T-joints, the joint should be cut a minimum of 25% of the total depth of the slab. The side of the T-joint must be cut 12" (20.4 cm) from the joint and a minimum of 2" (5.08 cm) deep.

For random crack and spall repairs, each side of the crack should be cut to create a minimum 2" (5.08 cm) deep vertical

Technical Data (Based on Draw Down Film)

Mix Ratio by Volume	1A : 3B
Specific Gravity, Side-A	1.06 ± 0.1
Side-B	1.26 ± 0.1
Viscosity at 75°F (24°C) Side-A	50 ± 20 poise
Side-B	thixotrope
Pot Life at 75°F (24°C), 50% R.H.	25 ± 5 minutes
Tack Free Time at 77°F (25°C), 50% R.H.	12-24 hours
Cure Time at 75°F (24°C), 50% R.H.	36-48 hours
Hardness, ASTM D2240	40 ± 5 Shore A
Tensile Strength, ASTM D412	300 ± 50 psi 2.1 ± 0.3 MPa
Elongation, ASTM D412	500 ± 50%
Tear Strength, ASTM D624	50 ± 5 pli 8.8 ± 0.8 kNm
Total Solids by Weight, ASTM D2369	95 ± 2%
Total Solids by Volume, ASTM D2697	94 ± 2%
Volatile Organic Component	0.42 lb/gallon 50 gm/liter

Depth of Joint	Width of Joint						
	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
1/4"	308	205	154	123	102	88	77
3/8"	205	136	102	82	68	58	51
1/2"	154	102	77	61	51	44	38
5/8"	123	82	61	49	41	35	30
3/4"	102	68	51	41	34	29	25
7/8"	88	58	44	36	29	25	22
1"	77	51	38	30	25	22	19

edge.

Ensure that all joint edges are at 90° angles to grade with no V-grooving or feather edges.

All surfaces must be primed with Polyprime® 2180 or



Polyprime® EBF-LV.

Mixing

Poly-Caulk® PX27GG may not be diluted under any circumstance.

Pre-mix Poly-Caulk® PX27GG Side-B material before combining with Side-A. Side-A material requires no mixing. Add Side-A to Side-B while mixing, using a mechanical mixer at low speed. Mix until a homogeneous mixture and color is attained (at least 5 minutes).

Use care to scrape the sides of the container to ensure that no unmixed material remains.

Use caution not to whip air into the material as this may result in pinhole blisters and/or shortened pot life.

Do not mix in an up and down motion.

Application

Apply using a caulking gun, hand pressure-type or pour from container.

This material can be applied at ambient temperatures from 40°F (4.4°C) to as high as 135°F (57°C).

The product needs to be conditioned at 75-80°F(24-27°C) prior to use.

Finishing

After applying Poly-Caulk® PX27GG, wait 36-48 hours, depending on temperature and humidity before opening to traffic.

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® PX27GG should be stored at room temperature, 60-95°F (15-35°C).

Poly-Caulk® PX27GG has a shelf life of 1 year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

Limitations

Discoloration will occur if exposed to UV, however no change will occur in the physical properties.

Warning

This product contains Isocyanates and Curatives.

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