



POLYCOAT PRODUCTS

A Division of American Polymers Corp.

POLY-CAULK® PX27 GG

100% Solids Non-Sag, Gun Grade Polyurethane Joint Sealant

Technical Data Sheet

DESCRIPTION

Poly-Caulk® PX27 Gun Grade is a two component, 1:5 (A:B) ratio by volume, non-sag, 100% solids polyurethane sealant.

FEATURES

- ❖ Odorless
- ❖ Flexible
- ❖ 100% Solids Meets VOC Regulations
- ❖ Cured Material Remains Flexible, Even In Cold Temperatures

TYPICAL USES

Poly-Caulk® PX27 GG is used on interior and exterior vertical concrete surfaces, to repair random cracks, control joints, and other areas where down time is limited.

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

COLORS

Concrete Grey

PACKAGING

1.5 gallon kit: One 1 quart can of Side-A and One 2 gallon pail, net fill 1.25 gallons of Side-B.

SURFACE PREPARATION

Allow concrete to cure 28 days before installation.

All joints must be clean and dry prior to installing Poly-Caulk® PX-27GG.

COVERAGERATES LF/Gallon

Depth of Joint	Width of Joint						
	¼"	⅜"	½"	⅝"	¾"	⅞"	1"
¼"	308	205	154	123	102	88	77
⅜"	205	136	102	82	68	58	51
½"	154	102	77	61	51	44	38
⅝"	123	82	61	49	41	35	30
¾"	102	68	51	41	34	29	25
⅞"	88	58	44	36	29	25	22
1"	77	51	38	30	25	22	19

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.

TECHNICAL DATA

Mixing Ratio (A:B) by volume	1:5 (A:B)
Specific Gravity	
Part-A	1.14
Part-B	1.20
Viscosity at 80 °F	
Part-A	50 ± 20 cps
Part-B	thixotrope
Pot Life @ 77°F (25°C)	2-3 hours
Tackfree Time @ 77°F (25°C)	12 hours
Cure Time @ 75°F, R.H. 50%	36-48 hours
Shore A hardness, ASTM D-2240	30 ± 5A
Tensile Strength, ASTM D-412	200 ± 50 psi
Elongation, ASTM D-412	600 ± 50%
Tear Strength, ASTM D-624	50 ± 5 pli
Solids Content	100%

If joint is damp, dry with heat torch.

Remove all dust from the concrete pores prior to installing Poly-Caulk® PX27 GG.

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 1½" from the joint and a minimum of ½" deep.

For random crack and spall repairs, each side of the crack should be cut to create a minimum ½" deep vertical 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.

MIXING

Poly-Caulk® PX27 GG may not be diluted under any circumstance.

Pre-mix Poly-Caulk® PX27 GG 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 obtained (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.

APPLICATION

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

This material can be applied at environmental 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 prior to use.

FINISHING

After applying Poly-Caulk® PX-27GG wait 36-48 hours, depending on temperature and humidity before opening to traffic.

CLEANUP

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

STORAGE

Poly-Caulk® PX-27GG should be stored at room temperature, 60-90°F (15-35°C).

Poly-Caulk® PX-27GG has a shelf life of one (1) year from date of manufacture in original, factory-sealed containers.

LIMITATIONS

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

WARNING

This product contains Isocyanates and Curatives.

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local Polycoat Products representative or visit our website for current technical data and instructions.

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