

Product Description

Poly-Caulk® 82 is a two-component aromatic, 1:1 ratio, rapid setting, self-leveling, 100% solids polyurea caulking compound for interior and exterior horizontal application.

Features

- 100% Solids
- Down Time 30-90 Minutes
- Flexible
- Meets California VOC and AQMD Requirement
- Meets UDSA Criteria
- Non-Toxic
- Odorless
- Remains Flexible, Even In Cold Temperatures

Typical Uses

Poly-Caulk® 82 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
- Food Processing Plants
- Freezers & Cold Storage
- Grade Matching
- Industrial and Manufacturing Facilities
- Parking Garage Decks
- Saw/Utility Cuts
- Spalls
- Truck Aprons
- Warehouses
- Wastewater Treatment Plants

Packaging

10-gallon kit	One 5 gallon (18.9 liters) pail of Side-A and One 5 gallon (18.9 liters) pail of Side-B
100-gallon kit	One 55 gallon drum (net 50 gallons, 189 liters) of Side-A and One 55 gallon drum (net 50 gallons, 189 liters) of Side-B

Color

Clear

Coverage

Coverage's 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 (Based on Draw Down Film)

Mix Ratio by Volume	1A : 1B
Specific Gravity, Side A	1.12 ± 0.1
Side B	1.07 ± 0.1
Viscosity at 75°F (24°C), Side A	1100 ± 200 cps
Side B	1200 ± 200 cps
Gel Time at 75°F (24°C), ASTM D2471	35 ± 5 seconds
Hardness, ASTM D2240	80 ± 5 Shore A
Tensile Strength, ASTM D412	1500 ± 200 psi 10.3 ± 1.4 MPa
Elongation, ASTM D412	300 ± 50%
Tear Strength, ASTM D624	275 ± 50 pli 48.2 ± 8.8 kNm
Total Solids by Weight, ASTM D2669	95 ± 2%
Total Solids by Volume, ASTM D2697	95 ± 2%
Volatile Organic Compounds, (Parts A&B Combined) ASTM D2369-81	0.0 lb/gal 0 gm/liter

	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

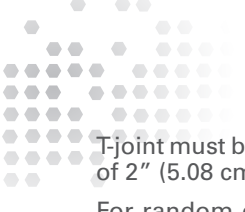
Surface Preparation

Allow concrete to cure 28 days before installation. Saw cut the joint to ACI Recommendations. All joints must be clean and dry prior to installing Poly-Caulk® 82.

If joint is damp, dry with heat torch. If primer is required, use Polyprime® 2180 or Polyprime® EBF.

Remove all dust from the concrete pores prior to installing Poly-Caulk® 82. If backer rod is 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" (20.4cm) 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 edge. Ensure that all joint edges are at 90° angles to grade with no V-grooving or feather edges.

Mixing

Poly-Caulk® 82 may not be diluted under any circumstance. Side-A material requires no mixing. Pre-mix Side-B material before application using a mechanical mixer at a low speed. Mix until a homogeneous mixture and color is attained.

Do not mix in an up and down motion. Use only a proportioning dispensing system which transfers, meters and mixes the Side-A with Side-B components at the desired rate and at the required proportion of 1:1 by volume.

Application

For best results, machine dispense using a 1:1 ratio pump, with or without heater as required. Use a disposable static mixing tube with restrictor before dispensing. Material left in static mixing tube will thicken in approximately 30-60 seconds and mixing tube needs to be discarded at that point. This material can be applied at environmental temperatures from 20°F (6.6°C) to as high as 135°F (57°C). The product needs to be conditioned at 75-80°F (25-27°C) prior to use.

This material may be used to fill the entire crack/joint. Excess/overflow material from joints should be shaved off in about 60 to 90 minutes after application.

Finishing

Slice off any over-pour flush to grade. Open to traffic once Poly-Caulk® 82 has set. Surface can be utilized to light traffic typically within 90 minutes of application.

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® 80 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).

Limitations

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

Warning

This product contains Isocyanates and Solvent.

Limited Warranty: Please read all information in the General Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. These products are for professional use only and preferably applied by professionals who have prior experience with the Polycoat Products materials or have undergone training in application of Polycoat Products materials. 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, instructions, and project specific recommendations.

Polycoat Products warrants its products to be free of manufacturing defects and that they will meet Polycoat Products' current published physical properties. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by Polycoat Products of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Polycoat Products shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. Polycoat Products shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. Polycoat Products reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

Disclaimer: All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Polycoat Products makes no claim that these tests or any other tests accurately represent all environments. Polycoat Products is not responsible for typographical errors. © 2022 Polycoat Products. All rights reserved. Revision 20220412.AG