



POLYCOAT PRODUCTS

A Division of American Polymers Corp.

POLY-CAULK® HM

100% Solids Self-Leveling
Polyurea Caulking Compound
Technical Data Sheet

DESCRIPTION

Poly-Caulk® HM (Hand-Mix) is a two component, modified aliphatic, rapid setting, self-leveling, 100% solids polyurea caulking compound.

FEATURES

- ❖ 100% Solids Meets VOC Regulations
- ❖ Meets USDA Criteria
- ❖ Remains Flexible, Even In Cold Temperatures
- ❖ Meets California VOC and AQMD Requirements
- ❖ Flexible
- ❖ Odorless

USES

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

- ❖ Food Processing Plants
- ❖ Bridge Headers
- ❖ Freezers and Cold Storage
- ❖ Waste Water Treatment Plants
- ❖ Parking Garage Decks
- ❖ Industrial/Manufacturing Facilities
- ❖ Airports
- ❖ Spalls
- ❖ Truck Aprons
- ❖ Grade Matching
- ❖ Saw/Utility Cuts

COLORS

Side-A White, Side-B Black

PACKAGING

1 gallon kit: One 1 gallon can (net fill 0.875 gallons) of Side-A and One 1 pint can (net fill 0.125 gallons) of Side-B.

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® HM.

If joint is damp, dry with heat torch.

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

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

MIXING

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

Pre-mix Poly-Caulk® HM 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 slow speed. Mix until a homogeneous mixture and color is obtained (at least 5 minutes).

TECHNICAL DATA

Solids Content	100%
Shore A hardness, ASTM D-2240	80 ± 4 A
Elongation, ASTM D-412	600 ± 50%
Tensile Strength, ASTM D-412	2000 ± 200 psi
Gel Time @ 75°F, ASTM D-2471	4-5 minutes
Tear Strength, ASTM D-624	425 ± 50 pli

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

NOTE: Poly-Caulk® HM may not be diluted under any circumstances. Proportions are premeasured.

Poly-Caulk® HM can be applied at ambient temperatures from 32°F (0°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® HM, wait 4-5 hours, depending on temperature and humidity before opening to traffic.

Slice off any overpour flush to grade.

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® HM should be stored at room temperature, 60-90°F (15-35°C).

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

LIMITATIONS

Do not dilute Poly-Caulk® HM under any circumstances.

Do not use in cracks, construction joints or control joints if surface is subject to thermal cycling.

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.

LIMITED WARRANTY

Polycoat Products warrants its products to be free of manufacturing defects and that they will meet Polycoat Products current published physical properties. Polycoat Products warrants that its products, when properly installed by a state licensed waterproofing contractor according to Polycoat Products guide specifications and product data sheets over a sound, properly prepared substrate, will not allow water migration for a period of one (1) year. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer 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 that infringes 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, 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, applicator.

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