



UL - CAULK HM 100% Solids, Self-Leveling Polyurea Caulking Compound Technical Data Sheet

DESCRIPTION

UL HM (Hand-Mix) is a two component, modified aliphatic, rapid setting, self-leveling, 100% solids polyureas caulking compound.

FEATURES

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

USES

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

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.

COVERAGE RATE

One gallon of UL HM will fill approximately 77 linear feet at 4" by 1".

		1/4	3/8	1/2	5/8	3/4	7/8	1"
Depth of Joint	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- CaulkHM. If joint is damp, dry with heat torch. Remove all dust from the concrete pores prior to installing UL HM. Ensure that all joint edges are at 90° angles to grade with no V-grooving or featheredges.

TECHNICAL DATA	
Mix Ratio by Volume	1A : 1B
Specific Gravity	
Part-A	1.07
Part-B	1.00
Viscosity at 80°F	
Part-A	2500 ± 500 cps
Part-B	120 ± 20 cps
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

MIXING

UL HM may not be diluted under any circumstance. Pre-mix UL HM Side-A and Side-B material before combining. Add Side-B to Side-A while mixing, using a mechanical mixer at slow speed. Mix until a homogeneous mixture and color is obtained (at least 2 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

NOTE: UL HM may not be diluted under any circumstances. Proportions are pre-measured. Do not estimate. UL 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 UL HM, wait 4-5 hours, depending on temperature and humidity before opening to traffic. Slice off any over pour flush to grade.

CLEAN UP

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

UL HM should be stored at room temperature, 60- 90°F (15-35°C). UL HM has a shelf life of one (1) year from date of manufacture in original, factory-sealed containers.

LIMITATIONS

Do not dilute UL 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 Ultimate Linings Products representative or visit our website for recently updated instructions and data.

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DISCLAIMER

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6630 Roxburgh Dr. #175 * Houston, TX 77041 * 281-598-5030 * Fax 713-937-0052
www.ultimatelinings.com