



TECHNICAL DATA SHEET

Flexkrete: Polyurea Seal 100

PRODUCT DESCRIPTION

Polyurea Seal 100 is a 100% solids, high elongation elastomer, VOC free, pure polyurea polymeric sealant, used in horizontal saw or preformed joints. This product is used on concrete or asphalt, saw cut and pre-formed joints subject to high volume traffic.

Polyurea Seal 100 is an aromatic polyurea, and, over time, color changes will occur. For long-term color stability, contact The Concrete Protector®.

FEATURES

- 100% solids
- Zero VOC's
- Highly elastomeric
- Meets USDA requirements for incidental food contact.

PHYSICAL PROPERTIES

SOLIDS BY VOLUME: 100%

SOLIDS BY WEIGHT: 100%

VOLATILE ORGANIC COMPOUNDS: 0 lbs/gal.

THEORETICAL COVERAGE DFT: 100 sq.ft. @ 16 mils

WEIGHT PER GALLON: 8.55 lbs.

MIX RATIO: 1A:1B

VISCOSITY (cps) @ 77°F: A: 530 approx. B: 450 approx.

SHELF LIFE @ 60-90°F: 6 months

TENSILE STRENGTH ASTM D 412: 1352 psi ± 50

ULTIMATE ELONGATION: 300% ± 5%

HARDNESS (Shore D) @0s: 42% ± 5%

HARDNESS (Shore A) @10s: 80 ± 5%

100% Modulus: 1032 psi (2.0 mpa)

TEAR RESISTANCE: 306.7 PLI (67KN/m)

SERVICE TEMPERATURE: -40°F--150°F (-40°C-65°C)

CURING SCHEDULE

POT LIFE @ 75°F: 8 Minutes

TACK FREE: Up to 12 Hours

INITIAL CURE: 30-45 Minutes

FINAL CURE: 3-4 Days

*Elevated temps will speed up the curing process.

INSTALLATION

All joints to receive PolyureaSeal 100 must be free of contamination. Some applications may require use of a primer prior to application of the sealant. Use plural component hand gun, or standard 1:1 ratio, plural component automatic equipment developing a minimum of 500 psi dynamic pressure is sufficient. These include SPI-Gusmer FF 18-6, SPIGusmer FF18-18 and SPI-Gusmer 25-25 HP with a static mix gun.

Due to very short pot life, all materials must be used immediately after mixing.

MAINTENANCE

If Polyurea Seal 100 is damaged and the surface has not been contaminated, it can be repaired by cutting out the damaged part and reapplying Polyurea Seal 100 to the cleaned section.

LIMITATIONS

- Polyurea Seal 100 is for professional application only.
- Polyurea Seal 100 must be stored at temperatures between 60° 70°F (21° C)
- Avoid moisture contamination in containers. Containers should not be resealed if contamination is suspected, carbon dioxide (CO²) created pressure can develop. Do not attempt to use contaminated material. • Read and observe all precautions, instructions and limitations that are included with all containers of Krete Filler.

Note: The material supplied is two components (Component A/Component B) used to formulate Polyurea Seal 100. The quality and characteristics of the finished polymer is determined by the mixture and application of the two components. FlexKrete Technologies has no role in the manufacturer of the finished polymer other than to supply its two components. It's vital that the person applying this product understands the product and is full trained and certified in the use of plural component equipment.

SAFETY and HEALTH DATA

WARNING: Contact with skin or inhalation of vapors may cause an allergic reaction. Avoid eye contact of the liquid or spray mist.

CLEAN UP: Use DPM, NMP, Polyclean.

EYE PROTECTION: Safety glasses, goggles, or a face shield are recommended.

SKIN PROTECTION: Chemical resistant gloves are recommended. Cover as much of the exposed skin area as possible with appropriate clothing.

RESPIRATORY PROTECTION: Use a respirator approved for isocyanates and organic vapors. Consider the application and environmental concentrations in deciding if additional protective measures are necessary.

INGESTION: Do not take internally. It is believed ingestion of polymeric isocyanates would not be fatal to humans, but may cause inflammation of mouth and stomach tissue.

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

The Concrete Protector (Division of Incredible Products, LLC), warrant that all products are assembled under rigorous quality assurance specifications and that all information supplied is exact. All information supplied is not to be taken as a warranty, but for you to conduct your own test to determine if the given product is suitable for your distinct purpose. The following list of properties should not be interpreted as specifications. CONVEYED OR SUGGESTED, NO WARRANTY IS BUILT UPON ANY DISCOVERED RESULTS OR INFORMATION YOU WILL OBTAIN DURING USE. CONVEYED OR SUGGESTED NO WARRANTY IS BUILT THAT THE GIVEN PRODUCT SHALL BE MARKETABLE OR THAT THE GIVEN PRODUCT WILL BE FIT FOR ANY DISTINCT PURPOSE. NO WARRANTY IS BUILT UPON SAID INFORMATION OR THAT THE GIVEN PRODUCT WILL NOT INFRINGE UPON ANY PATENT. The Concrete Protector is NOT liable for, direct or indirect, inadvertent or consequential damages. The Concrete Protector's liability is and will only be limited to the net selling price of our products or, at our discretion, the replacement of our products. Upon delivery of our products, your acceptance means that you accept all terms of this warranty even if other documents and or purchase orders astray from the terms of this warranty. No representative, on our behalf, is permitted to make any representation, warranty, or assume liability with any sale of our products. OUR PRODUCTS CONTAIN CHEMICALS THAT CAN CAUSE SERIOUS PHYSICAL INJURY. BEFORE THE USE OF OUR PRODUCTS, READ ALL MATERIAL AND FOLLOW ALL LISTED PRECAUTIONS TO AVOID ANY BODILY HARM