

FlexKrete™

Technologies
A div of Protective Products, Inc.

POLYUREA SEAL 100

POLYUREA SEAL 100

GENERIC TYPE:

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.

FEATURES:

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

RECOMMENDED USAGE:

- Concrete joint sealer
- Asphalt/concrete transition joints
- Threshold repairs
- Fractured slab sealant
- Wire guidance sealant
- Electric door thresholds
- Warehouse floor repair
- Crack Filler

INDUSTRIAL APPLICATIONS:

- Parking Structures
- Chemical Plants
- Waste/Water Treatment
- New Construction
- Shipping and Transportation
- Poultry & Meat Plants
- Refrigerated Warehouses
- Food Processing
- Cold Storage

COLORS:

Polyurea Seal 100 is an aromatic polyurea, and, over time, color changes will occur. For long-term color stability, consult your local FlexKrete distributor.

PHYSICAL DATA:

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 Mos.
Tensile Strength ASTM D 412	1200 psi ± 50
Elongation	930% ± 5%
Hardness (Shore D)	30 ± 5%
Hardness (Shore A)	80 ± 5%
100% Modulus	290 (2.0 mpa)
300% Modulus	395 (2.7 mpa)
Tear Resistance	195 PLI (34KN/m)
Service Temperature	-60°F-180°F (-50°C-82°C)
Abrasion Resistance	H-22 Wheel—172 mg. Lost (1 kg @ 1000 revolutions)

CURING SCHEDULE:

Pot Life	2 Minutes
Tack Free	16 Seconds
Initial Cure	30-45 Minutes
Final Cure	3-4 Days

INSTALLATION:

All joints to receive Polyurea Seal 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, SPI-Gusmer FF18-18 and SPIGusmer 25-25 HP with a static mix gun.

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

Coverage Rates

Linear Feet Per Gallon: Theoretical

Inches	1/4	1/2	3/4	1
1/4	308	154	103	72
1/2	154	77	51	38
3/4	103	51	34	26
1	72	38	26	19

Linear Feet Per 600ML Cartridge: Theoretical

Inches	1/4	1/2	3/4	1
1/4	53	27	18	13
1/2	27	13	9	7
3/4	18	9	6	4
1	13	7	4	3

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 & HEALTH DATA:

Material Safety Data Sheets are available on this material. Any individual who may come in contact with these products should read and understand the M.S.D.S.

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.

RESPIRATORY PROTECTION: Use of a respirator approved for isocyanates and organic vapors. FlexKrete Technologies warrants only that the two components of this product shall conform to the technical specifications published in the product literature.

The quality and fitness of the product is dependent upon the proper mixture and application of the components by the applicator. There are no warranties that extend beyond the description on the face of this instrument.

FlexKrete Technologies makes no warranty of the merchantability of the product or of fitness of the product for any particular purpose.

FlexKrete Technologies makes no warranty as to the quality of any product modified, supplemented, tinted, or altered in any way after it leaves the manufacturing plant. FlexKrete Technologies does not warrant that this product is suitable for use as a liner for potable water containers. Use of this product in a potable water container could be hazardous to health if it is improperly processed or applied.

The sole exclusive remedy of buyer, which is to have FlexKrete Technologies replace any nonconforming product at no cost to buyer, is conditioned upon buyer notifying FlexKrete Technologies, or its distributor in writing of such defect within thirty days of the discovery of such defect.

The data presented herein is not intended for non-professional applicators or those persons who do not purchase or utilize this product in the normal course of their business.

The potential user must perform any pertinent tests in order to determine the product's performance and suitability in the intended application, since final determination of fitness of the product for any particular use is the responsibility of the buyer.

The aforementioned data on this product is to be used as a guide and is subject to change without notice.

The information herein is believed to be reliable, but unknown risks may be present. No warranties, expressed or implied, including patent warranties or warranties of merchantability or fitness of use, are made by FlexKrete Technologies with respect to products or information set forth herein. Nothing contained herein shall constitute permission or recommendation to practice any invention covered by a patent without license from the owner of the patent.