

KEMKO® GROUT IV

Hydrophobic Polyurethane Water Cut-Off Polymer

TECHNICAL DATA SHEET

FOR PROFESSIONAL CONTRACTOR USE ONLY

Kemko® Grout IV is a two-component, moisture-cured polymer that reacts with water to form a strong, rigid, closed cell foam of hydrophobic polyurethane. It is designed as a water cut-off and to fill large voids and cracks in stone or concrete. Kemko® Grout IV is used on interior concrete surfaces, to repair random cracks, control joints, and other areas where down time is limited. Kemko® Grout IV will discolor in exterior applications.

FEATURES

- Forms A Flexible Gasket or Plug
- Prevents Water Infiltration

PACKAGING & COLORS

- Standard package sizes of 5 1/2-gallon kit: one 5 gallon (18.9 liters) pail of Side-A and one 1/2 gallon (0.95 liters) can of Side-B Catalyst.
- Standard color is dark brown.

LIMITATIONS

Kemko Grout IV Catalyst is considered Dangerous Goods. DOT regulations classify it as: Corrosive Liquid, N.O.S. (Contains Amine), Class 8, UN 1760, PG III.

Warning: This product contains Isocyanates.

SHELF LIFE

One year minimum in unopened, original containers when stored between 60 and 95°F (15-35°C) in a dry place away from sunlight. Remixing of components may be required upon long-term storage.

SURFACE PREPARATION

Substrate surfaces must be dry, sound, and free of all bond-inhibiting substances. Prepare surfaces according to ASTM D 4259 or ACI 503R and ChemCo Systems' specific recommendations. Cleaned concrete surfaces should have a minimum strength of 250 psi (1.38 MPa) in direct tension. Cleaned asphalt surfaces should have a minimum strength of 100 psi (0.68 MPa) at 73°F± 4°F (23°C ± 1°C). in direct tension. Steel surfaces should be cleaned to "white metal" according to SSPC SP 5.

TECHNICAL DATA

PHYSICAL PROPERTIES	TEST METHOD	VALUE
Mix Ratio, A:B		10:1 by volume
Color		Part-A: Dark Brown Part-B: Clear
Density	ASTM D1638	Part-A 9.38 lbs Part-B: 8.39 lbs
Viscosity	ASTM D2393	Part-A: 450 ± 150 cp Part-B: 50 ± 20 cp
Flash Point	ASTM D93	Part-A: 200°F (93°C) Part-B: 200°F (93°C)
Solubility in Water		not soluble
Expansion		1500-1800%
Induction Time (approximately)		20-30 seconds
Gel Time (approximately)		2-3 minutes
Corrosiveness		Non Corrosive

MIXING

The volume mixing ratio is 10 parts Side-A to 1 part Side-B.

Before application, pre-mix Side-A and Side-B. All equipment used to mix the material must be dry to prevent the Kemko® Grout IV from reacting. Mix Side-A and Side-B together in a ratio of 10A: 1B and place it in the injection pump or pour it directly into the joints.

Since the Kemko® Grout IV mixture will only activate when it comes in contact with water, it does not need to be used immediately. However, the surface may harden which will then need to be removed before the unhardened materials may be used normally.

INSTALLING

For filling control joints, wire slots, and saw cuts, transfer mixed material to a pour can with a spout sized for the joint to be filled. Fill the joint in a single direction. For a filled surface flush with the surrounding substrate, overfill slightly the joint until a crown of material is formed.

For narrow or deep joints, filling in two steps with the bulk of the material placed in the first step allows trapped air and settlement to occur for a more uniform installation. Following the initial cure, excess material (high spots) may be removed by warming with a hot air stream (heat gun) and cutting with a sharp blade.

CLEAN UP

Excess mixed product is best removed from the work area and tools before it hardens. The use of rags and solvents such as acetone or heavy-duty detergents facilitates cleaning. Cured product may be removed from tools by soaking in an epoxy stripper.



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