BUILDING TRUST

PRODUCT DATA SHEET

Sikacryl® PowerSet

TWO COMPONENT, POLYESTER BASED GAP FILLER

PRODUCT DESCRIPTION

Sikacryl® PowerSet is a specially formulated two-part polyester mortar designed to cure quickly for repair of cementitious and masonry substrates.

USES

- Repointing Repairs on Masonry Structures
- Crack Filling
- Walkways, Sidewalks, Stairs, Decks, Patios, Walls, etc.
- Suitable for use as a filler repair material for small gaps occurring in typical cementitious mortar, concrete, and masonry substrates

CHARACTERISTICS / ADVANTAGES

- Fast Curing
- Easy to Install
- Excellent for Minor Repairs to Horizontal or Vertical
- Convenient Packaging

PRODUCT INFORMATION

Packaging	10.1 fl. oz. (299 ml) + 2 static mixing nozzles Carton containing 6 cartridges with 2 static mixing nozzles per cartridge	
Appearance / Color	Mixed: Gray 'A' Component: Beige 'B' Component: Black	
Shelf Life	12 months in original, unopened packaging	
Storage Conditions	Cartridges standing upright in cool conditions, between 41 to 77 °F (5 to 25 °C) out of direct sunlight. Condition material to 60 to 75°F (15 to 24 °C) before using.	
Density	0.06 lb./in^3 (1.7 g/cm^3)	(mixed) (ASTM D-1875)

TECHNICAL INFORMATION

Compressive Strength	4 hours	7,250 psi (50 MPa)	(ASTM D-695) Tested at: 73 °F (23 °C) 50 % R.H.
	24 hours	8,700 psi (60 MPa)	
	7 days	10,730 psi (74 MPa)	
Modulus of Elasticity in Compression	4.54 x 10^5 psi (3,129 MPa) 7 days		(ASTM D-695) Tested at: 73 °F (23 °C) 50 % R.H.
Flexural Strength	3,480 psi (24 MPa) 7 days		(ASTM D-790) Tested at: 73 °F (23 °C) 50 % R.H.
Tensile Strength	1,595 psi (11 MPa) at 24 hours 1,885 psi (13 MPa) at 7 days		(ASTM D-638) Tested at: 73 °F (23 °C) 50 % R.H.
Elongation at Break	0.09 % at 24 hours 0.12 % at 7 days		(ASTM D-638) Tested at: 73 °F (23 °C) 50 % R.H.

APPLICATION INFORMATION

Coverage

Each cartridge will yield approximately 9-1/2 linear feet (2.9 m) of mixed material when filling a typical 3/8 in. wide by 3/8 in. deep (10 mm x 10 mm) gap (e.g. mortar joint)

Curing Time

Cartridge, Ambient and Substrate Temperature	Gel Time*	Cure Time
41 °F to 50 °F (5 °C to 10 °C)	12 mins	120 mins
51 °F to 68 °F (11 °C to 20 °C)	6 mins	80 mins
69 °F to 77 °F (21 °C to 25 °C)	4 mins	40 mins
78 °F to 86 °F (26 °C to 30 °C)	3 mins	30 mins
87 °F to 95 °F (31 °C to 35 °C)	2 mins	20 mins
96 °F to 104 °F (36 °C to 40 °C)	90 secs	15 mins

Sikacryl PowerSet is a two component polyester formulation requiring a static mixing nozzle to combine the ingredients for a reactive chemical cure.

* Gel Time is the typical amount of time for mixed Sika PowerSet to solidify at highest temperature in the range

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Cracks, small cavities and/or voids that occur in cementitious mortar, concrete or masonry substrates should be mechanically prepared to a clean, sound, dust-free condition. Extremely narrow (i.e. hair line) cracks and voids may need to be notched or routed. Dry substrate conditions are ideal, but damp conditions can be tolerated as long as the cracks, cavities or voids contain no standing water.

MIXING

- Remove the twist cap from the top of the cartridge.
- Reach into the opening at the top of the cartridge with a pliers or similar tool and pull the top of the plastic film upwards to reveal a metal retaining clip.
- Cut the plastic film open below the metal retaining clip with a utility knife.
- Ensure that both components within the plastic film are free to flow prior to inserting cartridge into a standard, good quality caulking gun. ‘A’ component is Beige in color. ‘B’ component is Black in color.

- Attach the static mixing nozzle.
- Begin dispensing the cartridge's contents through the static mixing nozzle. Prior to installation, the initial portion of material dispensed from the nozzle is discarded until it can be visually verified that both components are flowing and mixing to a uniform Gray appearance and consistency.
- If cartridge is partially used and the remaining contents is to be saved for a future application, leave the static mixing nozzle mounted on the cartridge until that later date. When ready to continue use, remove the spent static mixing nozzle by twisting counterclockwise and breaking the seal of the cured mortar. This may require the assistance of a pliers, wrench or similar tool. Remove remnants of cured mortar with a utility knife from the top of the openings in the plastic film to ensure fresh material is free to flow. Attach a new static mixing nozzle and repeat the dipensing and application procedures.

APPLICATION

After confirming that a well blended mix is being dispensed from the static mixing nozzle, fill the prepared crack, cavity or void with Sikacryl® PowerSet gap filler.

Tooling and Finishing
Finish flush and strike even with the existing surface using a dry putty knife or small pointing trowel.

Removal
Uncured product can be cleaned immediately from installation tools and surfaces with a solvent such as Acetone, MEK or Xylene. Cured mortar can only be removed mechanically.

CLEANING OF TOOLS

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LIMITATIONS

- Minimum recommended ambient and substrate temperature is 40 °F (4 °C). Maximum recommended ambient and substrate temperature is 105 °F (41 °C) .
- Fully cured Sika PowerSet gap filler is not a flexible material. Do not use in moving joints.
- Not formulated to be an aesthetically pleasing product.
- Do not apply over a wet, glistening surface. Substrates should be free of frost.
- May stain porous substrates. Test small mock-up installation in an inconspicuous location prior to proceeding with entire project.
- Cured Sikacryl PowerSet gap filler may not permit certain types of paint and coatings from adhering well to its surface. Mock-up and test for adhesion and compatibility in an inconspicuous location before committing to any paint or coating. Painting is not typically recommended.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

LOCAL RESTRICTIONS

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Department at 800.933.7452 nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instructions for each Sika product for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

ECOLOGY, HEALTH AND SAFETY

Keep container tightly closed. Keep out of reach of children. Not for internal consumption. For industrial use only. For professional use only. For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

LEGAL NOTES

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use. SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. No other warranties express or implied shall apply including any warranty of merchantability or fitness for a particular purpose. Sika shall not be liable under any legal theory for special or consequential damages. Sika shall not be responsible for the use of this product in a manner to infringe on any patent or any other intellectual property rights held by others. Sale of Sika products are subject to Sika's terms and conditions of sale available at http://usa.sika.com/ or by calling 201-933-8800.

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