

## PRODUCT DATA SHEET

# Sikalastic®-630

(formerly MSeal 630)

### REACTIVE METHACRYLATE RESIN FOR SEALING CRACKS AND CONCRETE DECKS

#### PRODUCT DESCRIPTION

Sikalastic®-630 is a very low viscosity, low surface tension, solvent-free, rapid-curing reactive methacrylate resin formulated to penetrate, repair and seal cracks in concrete substrates.

#### USES

- Exterior
- Horizontal
- Concrete
- Bridge decks
- Parking structures
- Infrastructure

#### CHARACTERISTICS / ADVANTAGES

- Fast curing (1 hour), making Sikalastic®-630 effective on highway and bridge projects, allowing for fast return of traffic flow, contributing directly to worker and driver safety
- UV resistance so exposure to sunlight does not affect product performance
- Weather resistant, providing long-lasting service life
- Two-component formula makes Sikalastic®-630 easy to install and shelf life stable
- Protects against water and chloride ion ingress to prevent premature deterioration
- Can be used at temperatures ranging from 40° to 104° F (5° to 40° C), extending application season
- Penetrating flood coat sealer to prevent moisture and ion ingress into substrate

#### APPROVALS / STANDARDS

Sikalastic®-630 is classified under DOT regulations as Resin Solution, UN 1866, Class 3, PG II.

#### PRODUCT INFORMATION

<b>Chemical Base</b>	Sikalastic®-630 is a reactive methacrylate resin.
<b>Packaging</b>	Sikalastic®-630 is sold by weight and packaged in 38 lb (17.3 kg) pails and 396 lb (180 kg) drums. This is equivalent to 4.7 gallons (17.8 L) and 49 gallons (185.5 L) respectively.
<b>Appearance / Color</b>	Clear Liquid
<b>Shelf Life</b>	2 years when properly stored
<b>Storage Conditions</b>	Store in a cool, clean, dry area. Keep out of direct sunlight. Storage temperature is 60°F–80°F (15–27° C). Store in original and unopened

container.

<b>Density</b>	<b>Specific Gravity</b> 0.97	(ASTM D 4669)
<b>Flash Point</b>	50° F (10° C)	(ASTM D 3278)
<b>Viscosity</b>	5-15cp (mPa-sec) at 73° F (23° C)	(ASTM D 2393)

## TECHNICAL INFORMATION

<b>Testing</b>	28	(ASTM C 661)
<b>Compressive Strength</b>	12,800psi (88.2MPa)	(ASTM D 638)
<b>Flexural Strength</b>	11,900psi (82MPa)	(ASTM D 638)
<b>Tensile Strength</b>	7,775psi (54MPa)	(ASTM D 638)
<b>Tensile Modulus of Elasticity</b>	39psi (.24MPa)	(ASTM D 412)
<b>Elongation at Break</b>	<b>Elongation at Break</b> 5%	(ASTM D 638)

## APPLICATION INFORMATION

<b>Coverage</b>	Sikalastic®-630: 100 ft <sup>2</sup> /gal (2.5 m <sup>2</sup> /L), depending on the number and volume of cracks as well as the porosity of the concrete.
<b>Drying Time</b>	Allow one hour for Sikalastic®-630 to gain full mechanical properties. Check for dry-to-touch condition. End result should be a darker-colored, matte finish with a minimal surface film and some loose broadcast aggregate.

## 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.

- Periodically inspect the applied material and repair localized areas as needed. Consult a Sika representative for additional information.
- Proper application is the responsibility of the user. Field visits by Sika personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## SUBSTRATE PREPARATION

- Inspect the concrete substrate before preparation. Note the location of surface cracks and the presence of contaminants. Concrete surfaces must be dry and free of dust, dirt, oil, wax, curing compounds, efflorescence, laitance, and all other bond-breaking materials.
- Inspect the underside of the deck for signs of leakage due to full-depth cracks.
- Check the weather forecast to ensure dry conditions. Wet substrates must be allowed to dry prior to beginning work.
- Using a dust-free, mobile shot blaster or grit blaster, brush-blast the substrate to expose surface cracking.
- Do not use wet preparation methods.
- Perform a second inspection, noting newly found surface cracks. Mark these for pre-treatment. Clean out cracks and the deck surface with oil-free compressed air.

## APPLICATION INSTRUCTIONS

### For Best Performance

- The application temperature range of the substrate is between 40 and 104° F (5 and 40° C).
- DO NOT use for vertical surface treatments.
- Sikalastic®-630 is a sacrificial film that will wear out over time. However, the cracks will continue to be protected.

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## MIXING

Sikalastic®-630 must be mixed with the appropriate amount of Sikalastic®-918 FS just prior to application. Air/substrate temperature determines the amount as follows:

Sikalastic®-630 (quantity per 1 gallon)

Temperature ° F (° C)	Volume Ounces
41 (5)	11
50 (10)	8.5
59 (15)	6.5
68 (20)	4
86 (30)	2

\* Please consult Sika Technical Services for applications outside this temperature range.

## APPLICATION

1. Sikalastic®-630 is applied as a flood coat in a gravity-fed process by broom or roller.
2. The contents of the mixed batch should be immediately poured onto the substrate and worked into cracks by distributing with ½" to ¾" (13–20 mm) nap solvent grade rollers or broom. Do not allow material to pond. The application rate is 100 ft<sup>2</sup>/gal (2.5 m<sup>2</sup>/L).
3. Do not allow the mixed batch to remain in the mixing vessel. It is advisable to randomly broadcast a 30 mesh (600 µm), dry aggregate into the wet, uncured resin at the rate of approximately 4 lb/100 ft<sup>2</sup> (200 g/m<sup>2</sup>).
4. The working time for Sikalastic®-630 is between 10 and 15 minutes once it has been applied to the substrate. The full cure to specification will be between 45 minutes and 1 hour.

### Pre-Treat Wide Cracks

Cracks over 1/8" (3 mm) should be treated individually prior to deck application. Full-depth cracks may require alternative treatment to prevent runoff of resin. Fill wider cracks with dry 30 mesh silica sand. Mix a small amount of Sikalastic®-630, pour into cracks, and distribute with a paintbrush. Squeeze bottles can also be used.

## CLEANING OF TOOLS

Clean tools as needed with inhibited MMA, acetone, ethyl acetate or similar solvents.

## LEGAL DISCLAIMER

### Sika Corporation

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### Product Data Sheet

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- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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