

## PRODUCT DATA SHEET

# Sikagard®-20 Pronto TF

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High Molecular Weight Methacrylate Resin Healer/Sealer

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## PRODUCT DESCRIPTION

Sikagard®-20 Pronto TF is a 2-component, high-modulus, high molecular weight methacrylate 100% solids penetrating sealer for horizontal concrete. Sikagard®-20 Pronto TF can be modified to a 3-component system with the addition of an accelerator for colder climates.

## USES

Sikagard®-20 Pronto TF may only be used by experienced professionals.

- Used on above grade concrete and mortar
- Seals surface of concrete to mitigate water and chloride intrusion

## CHARACTERISTICS / ADVANTAGES

- 100% solids/reactive formula
- Two component for safer application
- Low viscosity for easy, topical applications
- Penetrates cracks by gravity
- Provides a structural repair to cracked concrete.
- Easy handling, workability, mixing
- Prolongs life of cracked concrete
- High bond strength
- Low odor
- Opens to traffic in 4-6 hours at temperatures 40°F and rising

## PRODUCT INFORMATION

<b>Packaging</b>	Resins: 4.5 gal. pail Initiator: 1 gal jug		
<b>Shelf Life</b>	6 months in original, unopened containers		
<b>Storage Conditions</b>	Sikagard®-20 Pronto TF resin, initiator and accelerator should be stored at 40-95°F (4-35°C) in a dry location and in their original containers. All components should be stored out of direct sunlight and away from moisture. At elevated temperatures, storage shelf life is reduced.		
<b>Density</b>	Specific Gravity	1.08	(ASTM D-1475)
<b>Flash Point</b>	Flash Point	>205°F	(ASTM D-3278)
<b>Volatile organic compound (VOC) content</b>	15%		(ASTM D-2369)
<b>Viscosity</b>	15-25 cps		(ASTM D-2196)
<b>Solubility</b>	Vapor Pressure	<0.1 mm Hg	(ASTM D-323)

Compressive Strength	7 day (ext.)	>6,500 psi	(ASTM D-695)
Flexural Strength	24 hrs (ext.)	>700 psi	(CT-551)
Slant Shear Strength	14 days (ext.)	>1500 psi	(ASTM C-882)
Mixing Ratio	<div>Small Batch</div> <div>Part 'A' Sikagard 20 Pronto TF Resin1 gallon (3.78 L)</div> <div>Part 'B' Sikalastic 918 FS (BPO)60 grams (~1.5 fl.oz)</div> <div>Large Batch</div> <div>Part 'A' Sikagard 20 Pronto TF Resin4.5 gallon (17 L)</div> <div>Part 'B' Sikalastic 918 FS (BPO)270 grams (~7.5 fl.oz)</div>		
Recommended Dosage	Temperature	Powder BPO per Gallon	Powder BPO per Pail (4.5 gal)
	40-50°F (4-10°C)	120-160 g (~3-4 fl.oz)	540-720 g (~15-20 fl.oz)
	50-60°F (10-16°C)	80-120 g (~2-3 fl.oz)	360-540 g (~10-15 fl.oz)
	60-70°F (16-21°C)	60-80 g (~1.5-2 fl.oz)	270-360 g (~7.5-10 fl.oz)
	70-80°F (21-27°C)	60 g (~1.5 fl.oz)	270 g (~7.5 fl.oz)
	80-90°F (27-32°C)	60 g (~1.5 fl.oz)	270 g (~7.5 fl.oz)
	90-100°F (32-38°C)	60 g (~1.5 fl.oz)	270 g (~7.5 fl.oz)
Coverage	Theoretical Coverage rate: 100-150 ft²/gal. Coverage rates are dependent on porosity of substrate. In addition, allowance must be made for surface profile, unavoidable variation in applied film thickness, loss and waste. Tined concrete, cracks, spalls, heavily mechanically prepared areas and pop offs will consume more material.		
Ambient Air Temperature	Minimum ambient air temperature of 40°F (4°C). Maximum ambient air temperature of 110°F (43°C)		
Cure Time	Typical cure time is <4 hrs. Colder temperatures will slow cure and accelerator can be used. *For application temperatures above 95°F (35°C) consider a night time application. Contact Sika Technical Services.		
Tack Free Time	~2 hrs.		(ASTM C679)
Gel time	100g sample @ 73°F	70 min	(ASTM C881)

## 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.

## USES

- For extreme temperature, refer to cure chart for proper dosage of initiator and accelerator
- Working time will be greatly reduced at elevated temperatures. Consider a nighttime application for warmer climate regions.
- Do not use Sikagard®-20 Pronto TF at relative humidity

>90% or when a chance of rain is forecast within the specified cure time.

- Do not delay application of Sikagard®-20 Pronto TF on substrate for more than 5 minutes at 73°F (23°C). Rapid curing will take place if left unattended in the pail.
- NOT TO BE USED WITH** SikaPronto®-500 PPC
- Do not thin. Addition of solvents will prevent proper cure.
- Minimum ambient temperature for application is 40°F (4°C).
- Minimum age of concrete is 21-28 days, depending on curing and drying conditions.
- Moisture content must be below 5%.
- Sealed concrete surface may appear blotchy due to differential absorption.

- Not designed to seal cracks subject to hydrostatic pressure at the time of application.
- For horizontal applications only.
- Addition of DMAA Accelerator is recommended for substrate temperatures below 65°F (18°C).
- Not recommended for use on asphalt.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding the transportation, handling, storage, and disposal of chemical products, the user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological, and other safety related data. Users 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.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

Substrate must be clean, sound and free of surface moisture. Remove dust, laitance, grease, oils, curing compounds, waxes, impregnations, foreign particles, coatings and disintegrated materials by mechanical means (i.e. blast cleaning). Substrate shall be dry and moisture content shall be <5% when measured via Tramex moisture meter.

### MIXING

For a small batch of Sikagard®-20 Pronto TF, Add approximately 60 grams (~1.5 fl.oz) of Part 'B' Sikalastic 918 FS BPO to 1 gallon of Sikagard®-20 Pronto TF Part 'A' Resin. Mix with a jiffy paddle at 300 rpm for 2 minutes. For temperatures below 65°F (18°C), 2 ml of DMAA accelerator can be added to the resin mixture to facilitate curing of Sikagard®-20 Pronto TF. If DMAA Accelerator is to be used, it should be added after the Part 'B' Sikalastic 918 FS, and mixed in for 20-30 seconds.

### APPLICATION

Sikagard®-20 Pronto TF is applied to horizontal surfaces by roller, squeegee, or broom. Spread material over area and allow to pond over cracks. Let material penetrate into cracks and substrate; remove excess material leaving no visible surface film. For cracks greater than 1/8 in. (3 mm) wide, fill crack with oven-dried sand before applying Sikagard®-20 Pronto TF. Seal cracks from underside, when accessible, to prevent leakage. A second treatment may be required on very porous substrates. Apply second treatment before broadcasting. After treatment, wait at least 20 minutes at 73°F (23°C); cover with light broadcast of a dry 8/20 or similar sand. Distribute evenly over the surface at a rate of 15 to 20 lbs./100 sq. ft. Remove any loose sand and open to traffic after cured.



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## CLEANING OF TOOLS

Equipment should be cleaned immediately with an approved solvent (e.g. Acetone, MEK, or Xylene). Once the material has cured, it can only be removed using mechanical means.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## LEGAL DISCLAIMER

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

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