

# PRODUCT DATA SHEET

## SikaLatex<sup>®</sup> R

### ACRYLIC LATEX BONDING AGENT/ADMIXTURE FOR PORTLAND-CEMENT MORTAR/CONCRETE

#### PRODUCT DESCRIPTION

SikaLatex<sup>®</sup> R is an acrylic-polymer latex. It is a non- ree- mulsi- fiable, general-purpose admixture to produce poly- mer- modified concrete and mortar.

#### USES

- Admixture (replacing water) used in cement based products to improve adhesion, achieve a denser sur- face, and improve overall performance
- As a bonding grout (prime coat) when mixed with sand and portland cement

#### CHARACTERISTICS / ADVANTAGES

- Concrete/Mortar/Grout/etc. containing SikaLatex<sup>®</sup> R exhibits improved adhesion to pre- pared substrates
- Increased adhesive strength of mortar/concrete when used as a bonding grout
- Increased resistance to freeze/thaw durability
- Does not produce a vapor barrier

#### PRODUCT INFORMATION

<b>Packaging</b>	1 qt. (.94 L), 6/case 1 gal. (3.8 L) jug, 4/case 5 gal. (19 L) pail 55 gal. (208 L) drum (special order)
<b>Shelf Life</b>	12 months in original, unopened containers
<b>Storage Conditions</b>	Store dry at 40 to 95 °F (4 to 35 °C). Condition material to 60 to 75 °F (15 to 167 °C) before using. Protect from freezing. If frozen, discard

#### TECHNICAL INFORMATION

<b>Tensile Adhesion Strength</b>	<b>Slurry, scrub coat</b>	(ASTM C-882)
	2 parts sand, 1 part cement. SikaLatex <sup>®</sup> R added to produce a creamy consist- ency.	Tested at: 73 °F (23 °C) 50 % R.H.
	<b>Plastic Concrete to Hardened Concrete</b>	
	28 days > 500 psi (3.4 MPa) Bond Strength	

## APPLICATION INFORMATION

### Coverage

**As mixing solution:** for Concrete/Mortar/Grout/etc. use neat, replacing the amount of water typically recommended

**As a bonding grout:** estimated coverage based on amount of material (sand/cement) mixed

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

**Applying Concrete/Mortar:** Remove all deteriorated concrete, dirt, oil, grease, and all bond-inhibiting materials from surface. Be sure repair is not less than 1/8 in. (3.2 mm) in depth. Preparation work should be done by high pressure water blast, scabbler, or other appropriate mechanical means to obtain an aggregate-fractured surface with a minimum surface profile of 1/16 in. (1.6 mm). Saturate surface with clean water. Substrate should be saturated surface dry (SSD) with no standing water during application.

### MIXING

**As admixture/mixing solution:** With mixer running, add materials in the following order: SikaLatex® R solution and then the cement based product. Repalce the amount of water recommended by the product. Do not dilute with water.

**As a bonding grout:** With the mixer running, add in the following order. SikaLatex® R solution, aggregate, cement. The ratio is 1 part cement, 2 parts sand, and a sufficient amount of undiluted SikaLatex® R to produce a creamy paint consistency. Maximum 4 gal./sack of cement (15L/sack of cement).

**As a primer for acrylic coatings:** No dilution is required. Use as is.

### APPLICATION METHOD / TOOLS

**Admixture:** Immediately trowel SikaLatex® R mortar or concrete mix into areas to be patched. Do not over-finish. As soon as the applciation is done, to prevent damage, cure with damp burlap and/or white pigmented polyethylene film. Curing should continue for 24 hours. Pre-testing is recommended when adding SikaLatex® R to a specific mix design to assure the results required.

**Bonding Grout:** Brush grout into area to be resurfaced with stiff-bristled broom or scrub brush. Be sure entire surface and all edges are coated. Apply topping immediately over scrub coat before the bonding slurry dries.

**Primer (for acrylic coatings only):** Apply undiluted SikaLatex® R to prepared concrete substrate using brushes, rollers, soft brooms, or spray. SikaLatex® R must be tack-free (film formation) prior to coating. Estimated coverage on a CSP-3 prepared surface is 300 ft<sup>2</sup>/gal. (7 m<sup>2</sup>/l) SikaLatex® R primer may be applied up to 24 hours ahead providing the area is kept dry and clean. Very porous concrete may require a second coat of SikaLatex® R to seal the surface.

## LIMITATIONS

- Not resistant to UV rays unless painted, covered or coated.
- Will not adhere to polyethylene, Teflon, silicone, oils and greases, mold release agents and similar materials.
- Do not expose to open flame or temperatures above 120 °F (49 °C). Excessive heat can cause shorter shelf life.
- Not intended as a firestop.
- Do not use where temperatures rise above 240 °F (116 °C).
- As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc.

## 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

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