

## PRODUCT DATA SHEET

# SikaLatex<sup>®</sup>-01 GRC

### WATER BASED ACRYLIC COPOLYMER FOR GRC AND CEMENT MORTARS

#### DESCRIPTION

SikaLatex<sup>®</sup>-01 GRC is an acrylic copolymer emulsion for adding to GRC & cement mortars, to enhance adhesion, water resistance and other physical properties of mortars.  
Suitable for use in hot and tropical climatic conditions.

#### USES

SikaLatex<sup>®</sup>-01 GRC is used as bonding agent and site-mix mortar admixture for the following applications:

- Thin layer patching mortars
- Renders
- Screeds
- GRC/GFRC elements
- Concrete repair mortars
- Tile adhesives
- Masonry mortars
- Bonding slurry for fresh to old concrete

#### CHARACTERISTICS / ADVANTAGES

SikaLatex<sup>®</sup>-01 GRC is simply added to the mixing water to improve the following properties:

- Adhesion
- Shrinkage
- Water resistance
- Abrasion resistance
- Chemical resistance

SikaLatex<sup>®</sup>-01 GRC is non-corrosive, ready to use and does not re-emulsify, even under highly alkaline conditions.

#### PRODUCT INFORMATION

<b>Composition</b>	Acrylic copolymer emulsion
<b>Packaging</b>	20 L pails, 200 L drums
<b>Shelf life</b>	12 months from date of production if stored properly
<b>Storage conditions</b>	Store in undamaged and unopened, original sealed packaging, in cool and dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sunlight and frost.
<b>Colour</b>	White liquid
<b>Density</b>	~1.02 kg/l (+25 °C)
<b>Total chloride ion content</b>	Nil

#### BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based

on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## IMPORTANT CONSIDERATIONS

- Never use pure SikaLatex®-01 GRC or SikaLatex®-01 GRC-water mix directly onto the substrate as bonding bridge, always add cement and sand to the mix.
- The standard rules of good practice for production and placing of bonding bridge, repair and adhesive mortars must be observed when using SikaLatex®-01 GRC. Refer to relevant standards.
- Fresh applied mortar must be cured properly especially at high temperatures in order to prevent plastic and drying shrinkage. Use Sika® Antisol® as curing agent or apply curing by polyethylene sheet and wet hessian.
- Higher dosages can be used depending on the mix design, raw materials, climatic conditions and mortar requirements.
- Trial mixes must be performed to evaluate suitability and performance of the final product and to establish the exact dosage rate required.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

Substrate preparation to be done based on the type of application (bonding slurry, render, concrete etc.), please refer to relevant standards and guidelines.

### SUBSTRATE QUALITY / PRE-TREATMENT

Concrete or plaster surfaces should be clean, sound, rough and free from oil, grease cement laitance, loosely adhering particles or any other bond inhibiting substances. The surface should be in a saturated surface dry (SSD) condition.

#### AGGREGATE GRADING:

Aggregates should be well graded and thoroughly washed. Sand particle sizes should correspond to the thickness of mortar to be applied and required surface finish.

<u>Mortar Thickness</u>	<u>Aggregate Size</u>
< 2 mm	0 - 0.5 mm
2 - 5 mm	0 - 1.0 mm
5 - 15 mm	0 - 3.0 mm
> 15 mm	0 - 7.0 mm

## MIXING

### Bonding Slurry:

SikaLatex®-01 GRC : Water = 1 : 1

Mix together with fresh cement and fine sand to a homogeneous slurry consistency applicable by brush. The resultant bonding slurry should be brushed well onto the prepared surface.

### Mortars and Renders:

Mixing can be done in any suitable concrete mixer such as a pan mixer.

First add the cement and aggregates into the mixer and mix to a uniform consistency.

Then add the required quantity of diluted SikaLatex®-01 GRC and mix slowly for at least 2 minutes. Apply by steel trowel and finish with a wooden float.

### Glass Fibre Reinforced Concrete:

Recommended dosage for GFRC mix is 8 -10 % by weight of cement. Always add it after adding the water and plasticizer inside the mixer while its running. To achieve better results and greater strengths, always protect the concrete with polythene sheet.

## DISPENSING

SikaLatex®-01 GRC is generally added to the clean mixing water within the range of 1 : 1 to 1 : 2.

For all applications, apart from sprayed on renders, bonding slurry should be applied. The subsequent mortar application must be carried out whilst the bonding coat is still wet.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

### SIKA NORTHERN GULF

Bahrain / Kuwait  
Tel: +973 177 38188  
info@bh.sika.com  
gcc.sika.com

### SIKA SOUTHERN GULF

UAE / Oman / SIC  
Tel: +971 4 439 8200  
info@ae.sika.com  
gcc.sika.com

### Sika Saudi Arabia

Riyadh / Jeddah / Dammam  
Tel. +966 11 217 6532  
info@sa.sika.com  
gcc.sika.com



ISO 9001, 14001, 45001 –  
Lloyd's Register  
Sika S.A.C. LLC,  
Sika International Chemicals LLC,  
ISO 9001, 14001, 45001 – SGS  
Sika Gulf S.S.C. O.  
ISO 9001, 14001 – SGS  
Sika Saudi Arabia Limited

All products are supplied under  
a management system certified  
to conform to the requirements  
of the quality, environmental  
and occupational health &  
safety standards ISO 9001, ISO  
14001 and ISO 45001.



SikaLatex-01GRC-en-AE-(03-2023)-3-2.pdf

### Product Data Sheet

SikaLatex®-01 GRC

March 2023, Version 03.02  
020301010010000360