

# PRODUCT DATA SHEET

## Sikagard®-610 Acrylic

### ACRYLIC PAINT FOR CONCRETE PROTECTION AND FACADES

#### DESCRIPTION

Sikagard®-610 Acrylic is a one component acrylic paint based on water dispersed acrylic resins. Protective coating according to EN 1504-2.

#### USES

- As anticarbonation coating on cement mortar or reinforced concrete surfaces.
- Protect façades and concrete elements and as aesthetic finishing without changing the substrate texture.
- As preventive protection of new reinforced concrete structures on aggressive environment.
- As protective and decorative coating on repair work with SikaTop, SikaRep and Sika Monotop systems.

#### CHARACTERISTICS / ADVANTAGES

- Excellent resistance to environmental exposure and ageing.
- Permeable to water vapor, allowing facades to breathe.
- High CO<sub>2</sub> diffusion resistance, reducing the carbonation speed.
- Very good adhesion.
- Easy to apply.
- Ecological, solvent free.

#### APPROVALS / CERTIFICATES

- Protective coating according to EN 1504-2, Declaration of Performance 12550206, certified by notified Factory Production Control Body 0866; certificate 00866-CPD-2008-CE.0097 and provided with the CE mark

#### PRODUCT INFORMATION

<b>Composition</b>	Water dispersed acrylic resins.
<b>Packaging</b>	Pail 4 and 15 L
<b>Appearance / Colour</b>	Available in white. Other colors on request, according to RAL or NCS catalogs.
<b>Shelf life</b>	12 months from date of production if stored properly in undamaged and unopened original sealed packaging.
<b>Storage conditions</b>	Store in cool and dry conditions. Protect from direct sunlight and frost.
<b>Density</b>	~1,36 kg/l
<b>Solid content by weight</b>	~60 %
<b>Tensile Adhesion Strength</b>	≥ 0,8 (0,5) N/mm <sup>2</sup> (EN 1542)
<b>Permeability to Water Vapour</b>	SD < 5 m (class I) (EN ISO 7783-1) (EN ISO 7783-2)

## SYSTEMS

### System Structure

#### Normal or very absorbent substrates:

Primer	1 x Sikagard®-552 W Aquaprimer.
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Top coat	2 x Sikagard®-610 Acrylic.
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#### On existing paintings:

Top coat	2 x Sikagard®-610 Acrylic
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#### Very compact substrates:

Primer	Sikagard®-551 S Primer.
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Top coat	2 x Sikagard®-610 Acrylic
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**Note:** It may be necessary to apply a 3rd coat of Sikagard®-610 Acrylic depending on the color and porosity of the substrate.

## APPLICATION INFORMATION

### Consumption

Practical performance depends on roughness and absorption of the substrate:  
~10 - 14 m<sup>2</sup>/L per coat.

### Ambient Air Temperature

+8 °C min. / +35 °C max.

### Dew Point

Substrate and ambient temperatures must be at least 3 °C above dew point.

### Substrate Temperature

+8 °C min. / +35 °C max.

### Waiting Time / Overcoating

~4 hours under good ventilation conditions.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

#### Exposed concrete without existing coating

The surface must be dry, sound and free from loose and friable particles.

Suitable preparation methods are steam cleaning, high pressure water jetting or blastcleaning.

New concrete must be at least 28 days old. (e.g. Sika® MonoTop®, SikaRep, SikaTop®, SikaWall® and Sikagard®-720 EpoCem® etc.) can be used – refer to the respective product data sheet. Allow a curing time of at least 4 days before coating (except when the EpoCem is used, then coating can be applied within 24 hours).

#### Exposed concrete with existing coating

Existing coatings must be tested to confirm their adhesion to the substrate - adhesion test average > 1.0 N/mm<sup>2</sup> with no single value below 0.7 N/mm<sup>2</sup>.

Refer to the relevant Method Statement for more details

#### Inadequate adhesion

Existing coatings must be completely removed by suitable methods and the substrate must be sufficiently sound and suitable to be coated as above.

#### Adequate adhesion

Thorough cleaning of all surfaces by means of steam cleaning or high pressure water jetting. Normally, Sikagard®-610 Acrylic can be applied on existing coating without any priming - It is recommended to carry out adhesion testing on a small scale prior to full scale operations.

### MIXING

Sikagard®-610 Acrylic is supplied ready to use. Before apply stirred carefully.

### APPLICATION

Sikagard®-610 Acrylic can be applied by brush, roller or spray gun.

For airless projection equipment application, testing must follow to set:

- Pressure.
- Nozzle width.
- Application angle.

### CURING TREATMENT

Sikagard®-610 Acrylic is touch dry free after approx. 30 minutes (+ 20 °C).

Complete drying after 7 days.

### CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use.

Hardened or cured material can only be mechanically removed.

## IMPORTANT CONSIDERATIONS

Do not apply in the following situations:

- Expected rain
- Relative humidity > 80%
- Temperature below +8 °C and/or below dew point
- Concrete younger than 28 days

The system is resistant to aggressive atmospheric influences.

Dark colour shades (especially black, dark red and blue, etc.) may fade more rapidly than other lighter tone colours. Refreshing coat might be required at earlier interval than usual.

## 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.

## 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 the exact product data and uses.

## ECOLOGY, HEALTH AND SAFETY

### DIRECTIVE 2004/42/CE LIMITATION OF EMISSIONS OF VOC

According to the EU Directive 2004/42/CE, the maximum allowed content of VOC (product category A / c type wb) is 40 g/l (Limits 2010) for the ready to use product.

The maximum content of Sikagard®-610 Acrylic is < 40 g/l VOC for the ready to use product

## 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.

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