BUILDING TRUST

PROVISIONAL PRODUCT DATA SHEET 2021-02-23

Sikagard®-140 Pool

Water-based coating for swimming pool lining

DESCRIPTION

Sikagard®-140 Pool is a 1-part, water-based, coloured, acrylic resin coating with good resistance to chlorine treated water.

USES

The product can be used for the following applications:
- As a protective coating for interior and exterior concrete pools
- As a protective coating for interior and exterior chlorine treated public swimming pools using automatic controlled water treatment equipment

The product can be used on the following substrates:
- Concrete
- Sikagard®-720 EpoCem®
- Sikafloor®-81 EpoCem®
- Sika® Icoment®-520
- Water resistant fibre cement panels (not permanently immersed in water)
- Chlorinated rubber coatings
- Sikagard®-Poolcoat

Please note:
- The product is not suitable for ozone or electrolysis water treatment
- High chlorine concentrations (determined in DIN 19643-2) may cause chalking and discolouration

CHARACTERISTICS / ADVANTAGES

- 1-part ready to use
- Can be applied over different substrates
- Easily maintained by overcoating
- Good yellowing resistance
- Good chalking resistance
- Resistant to fatty acids from lotions and cosmetics
- Good resistance to chlorinated water
- Resistant to disinfection regimes
- Good opacity over existing coatings and levelling mortars

APPROVALS / CERTIFICATES

- CE Marking and Declaration of Performance to EN 1504-2 - Surface protection product for concrete - Coating

PRODUCT INFORMATION

Composition	Water-based acrylic resin
Packaging	5 L container Refer to current price list for packaging variations
Appearance / Colour	Note:When the product is exposed to direct sunlight, there may be some discolouration and colour variation. This has no influence on the function and performance of the product finish. Standard colours: White, adriatic blue, blue 32, green 21, Sikagard®-140 Pool red & black on colour shade card.
Shelf life	12 months from date of production

Storage conditions	The packaging must be stored properly in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +25 °C. Always refer to packaging.
Solid content by mass	~63,5 %
Solid content by volume	~50,9 %

TECHNICAL INFORMATION

Chemical resistance	Resistant to acidic and alkaline detergents, disinfectants and chlorinated swimming pool water dosed with automatic controlled water treatment equipment. Contact Sika Technical Services for additional information.

APPLICATION INFORMATION

Consumption	~160 g/m²/layer with a minimum of 2 layers This figure is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.
Layer thickness	~120 µm wet film thickness per layer
Ambient air temperature	+8 °C min. / +30 °C max.
Dew point	Beware of condensation. The substrate and uncured applied membrane must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the coating finish.
Substrate temperature	+8 °C min. / +30 °C max.
Substrate moisture content	The Product can be applied on substrates with a moisture content of ≤ 4 %. The substrate must be visibly dry with no standing water. The following test methods can be used to determine the substrate moisture content: ▪ Sika®-Tramex meter ▪ CM-measurement ▪ Oven-dry-method
Waiting time to overcoating	Sikagard®-140 Pool on Sikagard®-140 Pool Temperature / Minimum / Maximum +10 °C / ~40 hours / ~4 days +10 °C / ~16 hours / ~3 days Note:Times are approximate and will be affected by film thickness and changing ambient conditions particularly temperature and relative humidity.
Applied product ready for use	Pool filling can be start after a minimum of 14 days (+10 °C) after the final coating application. Note:Time is approximate and will be affected by film thickness and changing ambient conditions particularly temperature and relative humidity.

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

- Do not apply on moist substrates.
- For consistent colour matching, make sure the Product in each area is applied from the same control batch numbers.

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

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

EQUIPMENT

Application Equipment

- Brush
- Short pile fleece roller
- Airless spray
  pressure: 180 bar,
  nozzle diameter: 0,38 to 0,66 mm,
  angle: 40° to 60°

SUBSTRATE QUALITY / PRE-TREATMENT

Note:The adhesion value of the new lining onto the substrate must be as follows: adhesion test average ≥ 0,8 N/mm² with no single value below 0,5 N/mm².
Note:Confirm existing coating compatibility, adequate surface preparation and Product adhesion, by carrying out a small trial with adhesion tests before full application.

Exposed concrete / Cementitious render

- Substrate must be sound with a minimum tensile adhesion strength of 1,5 N/mm², clean, dry and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.
- New concrete must be cured for at least 28 days and have a tensile strength > 1,5 N/mm².
- Substrate must be prepared mechanically using suitable equipment such as abrasive blast cleaning or high-pressure water jetting to achieve a textured surface profile suitable for the product thickness and required coating adhesion values.
- High spots can be removed by grinding.
- Weak cementitious substrates must be removed and surface defects such as blow holes and voids must be fully exposed.
- Repairs to the substrate, filling of joints, blowholes/voids and surface levelling, must be carried out using Sikagard®-720 EpoCem®, Sikafloor®-81 EpoCem® or Sika® Icoment®-520
- Remove dust by industrial vacuuming equipment.

Coated concrete / Cementitious render

- The coated concrete / cementitious render must be sound with a minimum tensile adhesion strength of 1,5 N/mm²
- Existing coatings must be tested to confirm their adhesion to the substrate and their compatibility. As guidance, adhesion test average ≥ 0,8 N/mm² with no single value below 0,5 N/mm².

Inadequate adhesion

1. Remove existing coatings using suitable removal equipment such as abrasive blast cleaning or high pressure water jetting.
2. Prepare the substrate in the same way as for 'Exposed concrete / Cementitious render'.

Adequate adhesion

1. Thoroughly clean the existing fully bonded coated surfaces of all contaminants using suitable low / high-pressure water cleaning equipment.
2. Lightly abrade or grind the surface with mechanical grinding or abrading equipment to achieve a gloss / sheen free surface.
3. Remove dust by industrial vacuuming equipment.

Existing Sikagard® PoolCoat

1. Thoroughly clean the surface of all contaminants using suitable low / high-pressure water cleaning equipment.
2. Lightly abrade or grind the surface with mechanical grinding or abrading equipment to achieve a gloss / sheen free surface.
3. Remove dust by industrial vacuuming equipment.

APPLICATION

Note:Confirm waiting / overcoating times of any previous coats is achieved before applying subsequent coats. (Refer to waiting / overcoating time in Application Information)
Note:Confirm product application conditions: substrate moisture content, substrate, air and product temperatures, relative humidity and dew point (Refer to Application information).
Note:Make sure the application area is well ventilated during application and drying.

Spray application

1. Spray apply the Product in a continuous operation and at a speed to achieve a consistent thickness and surface finish.
2. Control the layer thickness during application using a thickness gauge.
3. The coating must be continuous, pore free and to the required surface finish.
4. Protect Product from rain, condensation and water for at least 24 hours at ~ +20 °C and at least 48 hours at ~ +10 °C.
5. Apply additional coats as required.

Manual application

1. Apply the Product evenly over the surface with a short pile fleece roller at the required consumption.
2. Control the layer thickness during application using a thickness gauge.
3. To achieve a smooth finish, smooth the surface with a brush.
4. The coating must be continuous, pore free and to the required surface finish.

5. Protect Product from rain, condensation and water for at least 24 hours at ~ +20 °C and at least 48 hours at ~ +10 °C.
6. Apply additional coats as required.

CLEANING OF EQUIPMENT

Clean all tools with water immediately after use. Hardened material can only be removed mechanically.

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.

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