

PRODUCT DATA SHEET

Sikagard®-140 Pool

Acrylic, specialist, water-based coating for swimming pool lining

PRODUCT DESCRIPTION

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

USES

Sikagard®-140 Pool is used as a:

- Protective coating for interior and exterior concrete pools.
- Protective coating for interior and exterior chlorinated swimming pools using automatically controlled water treatment equipment.

Sikagard®-140 Pool is used on the following substrates:

- Concrete.
- Sikagard®-720 EpoCem®.
- Sikafloor®-81 EpoCem®.
- Water resistant fibre cement panels (NOT permanently immersed in water).
- Chlorinated rubber coatings.
- Sikagard®-140 Pool.

CHARACTERISTICS / ADVANTAGES

- One-part, ready to use.
- Can be applied onto various substrates.
- Easy to apply and to refurbish, can be overcoated directly with itself.
- Good yellowing resistance.
- Good chalking resistance.
- Good resistance to fatty acids from lotions and cosmetics.
- Good resistance to chlorinated water and common swimming pool cleaning chemicals.
- Good opacity (covering power).
- With the addition of kiln-dried quartz sand, slip-resistance can be achieved.

APPROVALS / STANDARDS

- CE marking and declaration of performance based on EN 1504-2:2004 Products and systems for the protection and repair of concrete structures — Surface protection systems for concrete — Coating

PRODUCT INFORMATION

Chemical Base	Water-based, specialist acrylic resin	
Packaging	One-Part Container	10 Litres
	Refer to the current Price List for available packaging variations.	
Colour	Cured colour	Available in 4 colours: White, Black, Adriatic Blue and Lake Green.
Shelf Life	12 months from date of production	
Storage Conditions	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +25 °C. Always refer to the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.	

Density	1.34 kg/l	(EN ISO 2811-1)
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 water in swimming pools with controlled water treatment equipment. NOT resistant to organic solvents. At a higher chlorine concentration (> 0.6 mg/l) or water treatment by ozone (DIN 19643-2) chalking of the surface and discoloration might occur. A refurbishment layer of Sikagard®-140 Pool might become necessary for aesthetic reasons. Sikagard®-140 Pool is NOT suitable for pools using disinfection treatment based on electrolysis.
Skid / Slip Resistance	To achieve a slip / skid resistant texture, add ~5 % by weight kiln-dried 0.1-0.3mm quartz sand. Whilst stirring, add the appropriate amount of sand (for each 10 litre unit, 670 g of sand is sufficient) to the unit and continue mixing for at least 1 minute until evenly dispersed.

APPLICATION INFORMATION

Consumption	160 g/m ² per layer, minimum 2 layers to be applied. NOTE: Consumption data 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 the 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		
Product Temperature	Maximum	+30 °C	
	Minimum	+8 °C	
Ambient Air Temperature	Maximum	+30 °C	
	Minimum	+8 °C	
Relative Air Humidity	Maximum	80 % r.h.	
Dew Point	Beware of condensation. The substrate and uncured applied Product must be at least +3 °C above the dew point to reduce the risk of condensation or blooming on the surface of the applied Product. Low temperatures and high humidity conditions increase the probability of blooming.		
Substrate Temperature	Maximum	+30 °C	
	Minimum	+8 °C	
Substrate Moisture Content	Substrate	Test Method	Moisture Content
	Cementitious substrates	Calcium carbide method (CM-method)	≤ 6 %
	No rising moisture (ASTM D4263, polyethylene sheet).		
Waiting Time / Overcoating	Temperature	Minimum	Maximum
	+20 °C	~16 hours	~3 days
	+10 °C	~40 hours	~4 days
	NOTE: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.		
Applied Product Ready for Use	Before filling the pool leave Sikagard®-140 Pool to cure for at least 14 days after the final application. The temperature must NOT be below +10 °C during the curing process.		

VALUE BASE

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LIMITATIONS

Sikagard®-140 Pool is NOT designed for use in hot and humid environments (e.g. steam rooms or saunas). Pools coated with Sikagard®-140 Pool should have a maximum water temperature of +28 °C.

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

IMPORTANT

Strictly Follow Installation Procedures

Strictly follow installation procedures as defined in Method Statements, Application Manuals and Working Instructions, which must always be adjusted to the actual site conditions.

EQUIPMENT

APPLICATION EQUIPMENT

- Brush
- Fleece roller
- Airless spray equipment

For airless spray application use the following settings:

Pressure: 180 bar
Nozzle bore: 0.38 – 0.66 mm
Spray angle: 40 – 60 °

SUBSTRATE QUALITY

Existing coatings must be tested to confirm their adhesion to the substrate and their compatibility. As guidance, adhesion test average $\geq 0.8 \text{ N/mm}^2$ with no single value below 0.5 N/mm^2 .

SUBSTRATE PREPARATION

IMPORTANT

Surface defects due to voids in the substrate

Voids and blow holes in the substrate will weaken the surface and damage the covering Product if not repaired during the preparation process.

1. Fully expose blow holes and voids during surface preparation to identify the required repairs.

EXPOSED CONCRETE OR CEMENTITIOUS RENDER

1. Remove weak cementitious substrates.
2. Prepare cementitious substrates mechanically using

abrasive blast cleaning, abrasive planing or scarifying equipment to remove cement laitance.

3. Before applying thin layer resins, remove high spots by grinding.
4. Before applying the Product, remove all dust, loose and friable material from the application surface with an industrial vacuuming equipment.
5. Use Sikagard®-720 EpoCem® or Sikafloor®-81 EpoCem® to level the surface or fill cracks, blow holes and voids.

For additional information on Products for levelling and repairing defects, contact Sika® Technical Services.

COATED SUBSTRATE WITH INADEQUATE ADHESION

1. Remove existing coatings using suitable removal equipment such as abrasive blast cleaning or high pressure water jetting.
2. Prepare cementitious substrates mechanically using abrasive blast cleaning, abrasive planing or scarifying equipment to remove cement laitance.
3. Before applying thin layer resins, remove high spots by grinding.
4. Before applying the Product, remove all dust, loose and friable material from the application surface with an industrial vacuuming equipment.
5. Use Sikagard®-720 EpoCem® or Sikafloor®-81 EpoCem® to level the surface or fill cracks, blow holes and voids.

COATED SUBSTRATE WITH ADEQUATE ADHESION

1. Thoroughly clean the surface of all contaminants using pressured water cleaning equipment.
2. Lightly abrade or grind the surface with mechanical grinding or abrading equipment to achieve a sheen free surface.
3. Before applying the Product, remove all dust, loose and friable material from the application surface with an industrial vacuuming equipment.

APPLICATION

IMPORTANT

Ventilation in confined spaces

Always ensure good ventilation when applying the Product in a confined space.

Exposure to direct sunlight

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 coating.

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 TOOLS

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.

MAINTENANCE

The coating should be inspected at least annually for any defects (e.g. chalking, cracking, crazing, discontinuities, delamination, discolouration, etc.). Most defects can be rectified by draining the pool, thoroughly cleaning the existing coating, and applying a refresher coat of Sikagard®-140 Pool. Please contact Sika® Technical Services for further advice if required.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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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Product Data Sheet

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