BUILDING TRUST

PRODUCT DATA SHEET

Sikagard®-160 MP

2-part PUR aliphatic coloured top coat

DESCRIPTION

Sikagard®-160 MP is a 2-component, aliphatic, non-yellowing, polyurethane top coat with exceptional resistance against chloride.

USES

- As protective coating for swimming pools
- Protective coating for PUA systems in swimming pools & trafficable areas

CHARACTERISTICS / ADVANTAGES

- Excellent resistance to weather conditions
- Maintains color and glossy appearance for many years
- Highly resistant to chloride, alkali environment and industrial environment
- Easy cleaning and disinfection

PRODUCT INFORMATION

Composition	Aliphatic polyurethane
Packaging	Part A: 8 kg Part B: 2 kg Part A+B: 10kg set ready to mix
Colour	Resin - part A: coloured, liquid Hardener - part B: transparent, liquid Glossy RAL 9016 ,1013 ,5012 ,7040, other color shades available upon request.
Shelf life	24 months from date of production
Storage conditions	Store properly in original, unopened and undamaged sealed packaging, in dry and cool conditions. Protect from direct sunlight and frost.
Density	~ 1,39 kg/l
Solid content by volume	~ 50% (by volume), colour dependent
Dry film thickness	100 µm dry film thickness (at a consumption of ~280gr/m²)
Chemical resistance	Resistant against acidic and alkaline based cleaning agents, detergents and chlorinated water. Resistant to a wide range of chemical substances. For more information, please contact Sika Hellas' Technical Department. **Please refer to the paragraph of Important Considerations for any further important information that concerns the use/ disinfection of swimming pools.**

Temperature resistance	Dry heat: +60 °C Wet heat, hot water: +30 °C

SYSTEMS

System structure	Concrete, cementitious mortar: Pore sealer (if required): 1-2 x Sikagard® 720 EpoCem® Primer: 1-2 x Sikalastic® Primer MP (or Sikafloor® 150/151) Coating: 1-2 x Sikagard®-160 MP

APPLICATION INFORMATION

Mixing ratio	Part A : Part B = 4 : 1
Consumption	Total consumption for 2 layers: ~ 0,350 kg/m²
Ambient air temperature	+8°C min. / +30°C max.
Relative air humidity	75% max.
Dew point	Beware of condensation! The substrate and uncured floor coating must be at least 3°C above dew point to reduce the risk of condensation or blooming on the coating finish. It is very important to avoid condensation conditions during the product's curing period (i.e. 24 hours), as adverse effects during the normal process of formation of the protective film are to be expected. **Make sure to create suitable environmental application conditions, by covering the application surface and by using dehumidifiers and/ or heaters.**
Substrate temperature	+8 °C min. / +30 °C max.

Pot Life

Temperature	Time
+5 °C	~ 8 h
+15 °C	~ 5 h
+25 °C	~ 4 h
+40 °C	~ 60 min

Waiting time to overcoating

Temperature (°C)	Dry time to re-coat (h)
+5	48
+15	32
+25	20
+40	16

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

Applied product ready for use	Wait at least 7 days (at +25 °C) after the application of the second coat. Provide sufficient ventilation on a daily basis.

APPLICATION INSTRUCTIONS

EQUIPMENT

Sikagard®-160 MP must be thoroughly mixed using a low speed stirrer (300 - 400 rpm) or other suitable equipment.

SUBSTRATE QUALITY

The substrate must be sound, clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, e.t.c.
If in doubt, apply a test area first.

SUBSTRATE PREPARATION

Concrete / Leveling Screed - Mortar:
Substrates must be prepared mechanically using grinding equipment, abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.
Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.
Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using Sikagard®, Sikafloor® and Sikadur® suitable products. Please refer to the respective Product Data Sheet for further details regarding substrate preparation, product application, curing details, e.t.c.
All dust, loose and friable material must be completely

removed from all surfaces before application of the product, preferably by brush and/or vaccum.
Old coatings:
Well preserved and thoroughly cleaned old epoxy & PU coatings should be roughened by sweep blasting or grinding.
In case of doubt, conduct a test on a small area.

MIXING

Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 3 minutes until a uniform mix has been achieved.
To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix.
Over mixing must be avoided to minimise air entrainment.

APPLICATION METHOD / TOOLS

Prior to application, confirm substrate moisture content, relative humidity and dew point.
Airless spray
Confirm that the equipment is clean. Spray a wet layer in even and parallel passes with 50% overlap to avoid exposed areas and gaps in the file.
Pressure: 150 - 170 bar
Nozzle diameter: 0,013” - 0,017”
Roller
Sikagard®-160 MP can be applied by short-piled solvent resistant roller (crosswise).

CLEANING OF EQUIPMENT

Removal of fresh remnants from tools and application equipment can be carried out using Sika Colma Cleaner immediately after use. Hardened / cured material can only be mechanically removed.

IMPORTANT CONSIDERATIONS

- In case of high chemical concentration for water disinfection (combination of chlorine and ozone, refer to DIN 19643-2) there is a high risk of chalking and discoloration. In such a case, overcoating of the surface for aesthetical reasons is recommended.
- If water treatment is performed by the electrolysis disinfection process, the use of Sikagard®-160 MP is forbidden.
- Discoloration may also take place in case of contact with leaves of plants and trees. In such a case, cleaning and covering with rags is recommended as protective measures.

BASIS OF PRODUCT DATA

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.

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.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

DIRECTIVE 2004/42/CE LIMITATION OF EMISSIONS OF VOC

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / i type sb) is 500g/l (Limit 2010) for the ready to use product. The maximum content of Sikagard®-160 MP is < 500 g/l VOC for the ready to use product.

LEGAL NOTES

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