

PRODUCT DATA SHEET

Sikalastic®-220 FS

Fast-setting, two-component, low-modulus epoxy top coat and wear course



PRODUCT DESCRIPTION

Sikalastic®-220 FS is a 100 % solids, epoxy binder used to protect Sikalastic®-390 Membrane and to provide durable antiskid surface properties by broadcasting oven-dried, quartz sand into the binder.

WHERE TO USE

Sikalastic®-220 FS may only be used by experienced professionals.

- Suitable wear course over Sikalastic®-390 Membrane as part of the Sikalastic®-3900 Traffic System
- Multi-storey parking decks and ramps
- Interior foot bridges and walkways
- Interior stadium and arena surfaces

CHARACTERISTICS / ADVANTAGES

- Low-modulus epoxy technology provides durable, yet flexible wear course and topcoat protection over elastomeric membrane
- Fast-setting cure reduces valuable wait times during installation
- Creates high impact visual colour effect contributing to improved safety, aesthetics and traffic control
- Unlimited colours. No batch minimum required
- Convenient easy mix ratio A:B = 1:1 by volume
- Resistant to chlorides, oil, gasoline and other chemicals
- Contribution to LEED® credits

ENVIRONMENTAL INFORMATION

- Contributes towards satisfying LEED®v4 *MR Credit - Building Product Disclosure and Optimization - Environmental Product Declarations (Option 1)* : EPD Type III - Product Specific
- Contributes towards satisfying LEED®v4 *IEQ Credit - Low-Emitting Materials* : Clean Air Gold Certification
- Contributes towards satisfying LEED®v4 *MR Credit - Building Product Disclosure and Optimization - Sourcing of Raw Materials (Option 1: Raw material source and extraction reporting)* : 2025 Sika Corporate Sustainability Report (third-party verified)

PRODUCT INFORMATION

Packaging	18 L (4.76 US gal) unit
Appearance / Colour	RAL 7046 (Telegrey 2), RAL 7015 (Slate Grey). Special colours available upon request.
Shelf Life	12 months in original, unopened packaging under proper storage conditions

Storage Conditions	Store dry at temperatures between 5 °C and 32 °C (41 °F and 89 °F). Condition product at temperatures between 18 °C and 30 °C (65 °F and 86 °F) before use.																							
Solid content	100 %																							
Volatile organic compound (VOC) content	< 20 g/L																							
Shore D Hardness	72	(ASTM D2240)																						
Abrasion Resistance	0.03 g of loss	(ASTM D4060) Taber Abraser, CS-17 Wheel/ 1000 g (2.2 lb)/1000 cycles																						
Elongation at Break	55 %	(ASTM D412)																						
Chemical Resistance	Consult Sika Canada																							
Water Absorption	< 0.20 % (24 hours immersion)	(ASTM D570)																						
Mixing Ratio	A : B = 1 : 1 by volume																							
Consumption	1.6 - 2.2 m²/L (65 - 90 ft²/US gal) at 18 - 25 mil w.f.t. per coat Note: Typically, one (1) coat is required in parking stalls, two (2) coats in all other areas. <i>Actual coverage rates and material consumption will depend upon porosity and profile of the substrate. Test areas are recommended to establish correct coverage rates. Special colours (ex. : red and yellow) may require increased thickness to achieve uniform opacity.</i>																							
Pot Life	15 minutes	250 g (8.8 oz)																						
Curing Time	<table><tr><td></td><td>10 °C</td><td>23 °C</td><td>30 °C</td></tr><tr><td>Walk on time</td><td>14 hours</td><td>5 hours</td><td>3 hours</td></tr><tr><td>Light traffic</td><td>24 hours</td><td>8 hours</td><td>5 hours</td></tr><tr><td>Normal traffic</td><td>36 hours</td><td>12 hours</td><td>8 hours</td></tr><tr><td>Full cure</td><td>4 days</td><td>48 hours</td><td>36 hours</td></tr></table>		10 °C	23 °C	30 °C	Walk on time	14 hours	5 hours	3 hours	Light traffic	24 hours	8 hours	5 hours	Normal traffic	36 hours	12 hours	8 hours	Full cure	4 days	48 hours	36 hours	(ASTM D1640)		
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Drying times will vary according to air and substrate temperature and humidity																								
Waiting Time / Overcoating	<table><tr><td>10 °C</td><td>23 °C</td><td>30 °C</td></tr><tr><td>7 hours</td><td>3 hours</td><td>1 h 30 min</td></tr></table>	10 °C	23 °C	30 °C	7 hours	3 hours	1 h 30 min																	
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BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

LIMITATIONS

- Sikalastic®-220 FS is not recommended for exterior applications, use with Sikalastic®-394 for exterior applications.
- Thickness and re-coat window are critical; system will not work if installed differently.
- Minimum / maximum ambient and substrate

temperature during application and cure: 10 °C / 32 °C (50 °F / 90 °F). Monitoring of ambient and substrate temperature should always be done when applying traffic coatings. Note that low temperatures will slow down the cure, and high temperatures will accelerate it. For applications outside of this temperature range, contact Sika Canada.

- Substrate temperature must be at least 3 °C (5.5 °F) above measured dew point temperature.
- Maximum relative humidity during application and cure: 85 %.
- Substrate must be dry prior to application. Do not apply to frosted, wet or damp surfaces. Allow sufficient time for substrate to dry to avoid potential for bonding problems.
- Protect from dampness, condensation and water

- contact during the initial 12 hours cure period.
- Do not store materials outdoors or exposed to sunlight for prolonged periods.
- Do not hand-mix or thin with solvents: mechanical mix only.
- Ensure proper ventilation.

ENVIRONMENT, HEALTH & 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.

SURFACE PREPARATION

Surface Preparation

Apply onto cured Sikalastic®-390 Membrane within the acceptable recoat time of 6 to 24 hours at 23 °C (73 °F). If recoat time is not respected, then mechanical abrasion followed by the application of Sikalastic® Recoat Primer (see the Product Data Sheet for instruction) before the application of Sikalastic®-220 FS is required.

MIXING

Pre-mix each component of Sikalastic®-220 FS separately.

Empty component B in the correct mix ratio into the component A container. Mix the combined components for three (3) minutes at low-speed (300–450 rpm), to minimize air entrapment, using a drill fitted with an Exomixer® type mixing paddle (recommended model) suited to the volume of the mixing container. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once, to ensure complete mixing. When completely mixed, Sikalastic®-220 FS should be uniform in colour and consistency.

Mix only that quantity of product that can be used within its pot life.

APPLICATION

Sikalastic®-220 FS is versatile enough to accommodate the various common field methods employed by deck membrane application professionals. System builds and thicknesses will vary depending on project specifications and traffic zones. Refer to Sikalastic®-3900 System Data Sheet and Specification Guide for further system details.

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Application typically involves the use of flat or notched squeegees to evenly spread the material immediately after mixing. Backrolling is then used to achieve uniform required thickness in advance of oven-dried quartz sand broadcast. Additional back rolling is required to encapsulate sand in final topcoats.

Allow wear course to cure between 8 to 36 hours before opening to traffic.

CLEAN UP

Uncured material can be removed from equipment and tools using Sika Cleaning Wipes or a solvent, such as xylene. Strictly follow solvent manufacturer's warnings and instructions for use. Cured material can only be removed manually or 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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Product Data Sheet

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