



Product Data Sheet

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TRAFFIC COATINGS

Sikalastic®-220 FS

FAST-SETTING, TWO-COMPONENT, LOW MODULUS EPOXY TOP COAT AND WEAR COURSE

Description	Sikalastic®-220 FS is a 100 % solids, epoxy binder used to protect Sikalastic®-390 Membrane and to provide durable anti-skid surface properties by broadcasting oven-dried, quartz sand into the binder.
Where to Use	<ul style="list-style-type: none"> ▪ 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.
Advantages	<ul style="list-style-type: none"> ▪ Low modulus epoxy technology provides durable, yet flexible wear course and topcoat protection over elastomeric membrane. ▪ Fast setting cure reduce valuable wait times during installation. ▪ Create 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.

Technical Data

Packaging	18 L (4.76 US gal.) unit		
Colours	RAL 7046 Telegrey 2, RAL 7012 Basalt Grey, RAL 7015 Slate Grey Special colours available on request.		
Yield	Reg: 1.6 - 2.2 m ² /L (65 - 90 ft ² /US gal.) at 18 - 25 mils w.f.t. per coat 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 (i.e. red and yellow) may require increased thickness to achieve uniform opacity.</i>		
Shelf Life	1 year in original, unopened packaging under proper storage conditions. Store dry at temperatures between 5 and 32 °C (41 and 89 °F). Condition product at temperatures between 18 and 30 °C (65 and 86 °F) before use.		
Mix Ratio	A : B = 1 : 1 by volume		
Properties at 23 °C (73 °F) and 50 % R.H.			
Solids Content	100 %		
Pot Life, 250 g (8.8 oz)	15 minutes		
Drying Times ASTM D1640	10 °C	23 °C	30 °C
Recoat time	7 hours	3 hours	1 h 30 min
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
<i>Drying times will vary according to air and substrate temperature and humidity.</i>			
Elongation at Break ASTM D412	55 %		
Abrasive Resistance ASTM D4060	0.03 g of loss		
Taber Abraser, CS-17 Wheel/ 1000 g (2.2 lb)/1000 cycles			
Shore Hardness ASTM D2240 - Shore D	72		
Water Absorption ASTM D570	< 0,20 % (24 hours immersion)		
VOC Content	< 20 g/L		
Chemical Resistance	Consult Sika Canada		
<i>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.</i>			

HOW TO USE

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.

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 drill (300 - 450 rpm) to minimize entrapping air. Use 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 which can be used within its pot life.

Application Sikalastic®-220 FS is versatile 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 Specification guide for further system details.

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 before opening to traffic.

Clean Up Clean all tools and equipment immediately with Sika® Epoxy Cleaner and Thinner. Once cured, product can only be removed mechanically. Wash hands and skin thoroughly with hot soapy water or use Sika® Hand Cleaner towels.

- 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.
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Health and Safety Information For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

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, within their shelflife. 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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