



PRODUCT DATA SHEET

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TRAFFIC COATINGS

Sikalastic®-2545 W GSC

WATER-BASED EPOXY TRAFFIC COATING

Description	Sikalastic®-2545 W GSC is a semi-breathable, water-based, two-part epoxy resin coating, applied to concrete slab-on-ground substrates over Sikalastic®-2570 W Primer. Quartz sand is broadcasted and encapsulated to provide improved-traction texture.
Where to Use	Underground parking garage slab-on-ground concrete surfaces subjected to medium-duty traffic conditions
Advantages	<ul style="list-style-type: none"> ▪ Resistant to vehicle tire traffic conditions ▪ Moisture permeability properties, better suited for ground slab applications than typical membrane systems ▪ Improved aesthetic appearance compared to clear sealers ▪ Good resistance to deicing salts and vehicle fluids ▪ Unlimited colours, no minimum required ▪ Long pot life and working time ▪ Low VOC, low odour ▪ Fast recoat and cure properties, minimizes facility downtime ▪ Excellent opacity and colour hiding capability

Technical Data

Packaging	18.9 L (5 US gal.) unit	
Colour	Matte finish pre-tinted to RAL 7012 Basalt Grey, RAL 7015 Slate Grey, RAL 7046 Telegrey 2 Custom colours available upon request.	
Yield	1.6 - 2.0 m ² /L (64 - 80 ft ² /US gal.) per coat (20 - 25 mil w.f.t.) (10 - 13 mil d.f.t.) Typically one (1) coat is required over Sikalastic®-2570 W Primer in light-to-medium duty parking applications requiring permeability. For higher absorbency substrates, pre-treatment maybe required. <i>Do not thin, as it will slow cure and reduce ultimate properties. Actual coverage rates and material consumption will depend upon porosity and profile of the substrate. Test areas are recommended to establish correct coverage rates.</i>	
Shelf Life	Two (2) years in original, unopened packaging under proper storage conditions. Store dry at temperatures between 5 and 32 °C (41 and 89 °F). Protect from freezing. If frozen, discard. Condition product between 18 and 30 °C (65 and 86 °F) before use.	
Mix Ratio	A:B = 2:3 by volume	
Properties at 23 °C (73 °F) and 50 % R.H.		
Solids Content, by volume	~ 51.5 %	
Pot Life, 250 g (8.8 oz)	10 °C (50 °F)	~ 1 hour
	20 °C (68 °F)	~ 40 minutes
	30 °C (86 °F)	~ 25 minutes
	Pot life is not visible. Product remains liquid after exceeding pot life. Application beyond pot life limit may result in adhesion failure. DO NOT APPLY BEYOND POT LIFE LIMIT.	
Waiting / Recoat Times		
Before application of a second coat allow		
	Minimum	Maximum
10 °C (50 °F)	~ 4 hours	~ 72 hours
20 °C (68 °F)	~ 2 hours	~ 48 hours
30 °C (86 °F)	~ 1 hour	~ 24 hours
Before light vehicle traffic on Sikalastic®-2545 W GSC allow		
	Minimum	
10 °C (50 °F)	~ 72 hours	
20 °C(68 °F)	~ 48 hours	
30 °C (86 °F)	~ 24 hours	
<i>Drying times will vary according to air and substrate temperature and humidity.</i>		
Water Vapour Transmission ASTM E96	> 3 perms	
Pull-off Strength ASTM D7234	> 2.5 MPa (> 360 psi) (substrate failure)	
VOC Content	~ 24 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

Surface must be clean, sound and dry. Remove dust, laitance, grease, waxes and any other contaminants. For concrete surface preparation requirements, refer to Product Data Sheet for Sikalastic®-2570 W Primer.

Apply onto cured Sikalastic®-2570 W Primer within the acceptable recoat window of 2 to 48 hours at 20 °C (68 °F). If recoat window is not respected, then mechanical abrasion is required to remove any sheen or gloss. The prepared surface must be vacuumed, then wiped clean with a solvent-moistened rag to remove all traces of dust, dirt or preparation residue prior to application of the Sikalastic®-2545 W GSC. Cracks that are to be overcoated due to aesthetically requirements should be routed and filled with a Sika® epoxy such as the Sikadur®-31 Hi-Mod Gel or an equivalent and fully cured prior to installation.

Mixing

Premix each component of Sikalastic®-2545 W GSC separately.

Empty Component A in the correct mix ratio to Component B. Mix the combined components at low-speed (200 - 300 rpm) for at least three (3) minutes with a drill fitted with an *Exomixer*® type mixing paddle (recommended model) suited to the volume of the mixing container and to minimize entrapping air. 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®-2545 W GSC should be uniform in colour and consistency.

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

Application

Prior to and during application, measure and record ambient relative humidity, ambient temperature and substrate temperature to determine Dew Point Temperature. Do not apply Sikalastic®-2545 W GSC when surface temperature is not at least 10 °C and 3 °C above Dew Point Temperature.

Apply Sikalastic®-2545 W GSC as a wear course or topcoat onto sufficiently cured Sikalastic®-2570 W Primer at a rate of 1.6 - 2.0 m²/L (64 - 80 ft²/US gal.). Pour a bead of product in the form of a ribbon, then spread with a notched squeegee, and commence initial backroll to aid in levelling prior to broadcast of aggregate and final backrolling. Allow the material to self-level for 5 to 10 minutes then broadcast clean, oven-dried (minimum #28 - maximum #32 mesh) quartz sand at a rate of 0.4 - 0.5 kg/m² (9 lb/100 ft²). Backroll to ensure uniform finish. Sikalastic®-2545 W GSC is approximately 51 % solids by volume, dry film thickness will reduce proportionately versus wet film, adhere to recommended spread rate range to ensure sand encapsulation.

Clean Up

Collect and contain spills with absorbent product. Discard in accordance with applicable regulations. Once hardened, product can only be removed mechanically. Clean tools and brushes with Sika® Epoxy Cleaner cleaning solvent.

Limitations

- Sikalastic®-2545 W GSC is best installed by skilled and experienced applicators. Consult Sika Canada for advice and recommendations.
- Unlike most other systems, this material does not harden after pot life has expired, it remains liquid during a prolonged period. However, if pot life is exceeded, application will result in a poor adhesion, loss of chemical resistance and physical properties of surface. DO NOT APPLY BEYOND POT LIFE EVEN IF STILL LIQUID.
- Do not thin this product. Addition of thinners (e.g. water, solvent, etc.) will slow cure and reduce ultimate properties of this product. Use of thinners will void any applicable Sika warranty. Improper mixing procedure or incorrect mixing ratio may result in moisture sensitivity, whitening, slow cure, soft spots, and other defects.
- **Substrate temperature:** At least 3 °C (5.5 °F) above the measured dew point.
- **Maximum relative humidity during application and cure:** 75 %.
- Sikalastic®-2545 W GSC should not be applied when the ambient relative humidity is greater than 75 % as curing times will be longer and water will be retained in the film reducing ultimate primer performance.
- Water-borne products require moisture to evaporate from the film to cure to full properties. Provide adequate fresh air ventilation to remove the excess moisture from the curing product.
- **Minimum substrate and air temperature:** 10 °C (50 °F) 24 hours before, during and after coating application.
- When over-coating existing coatings, compatibility and adhesion testing is recommended and existing coating must be acknowledged as determining the adhesion and performance of all subsequently applied materials.
- Do not hand mix Sikalastic® materials; mechanical mixing only.
- Protect from dampness, condensation and water contact during the initial 24 hour cure period.
- **Expect slight sheen and colour variations when placed adjacent to other Sika® Epoxy or Polyurethane topcoat finishes.**
- Will discolour over time when exposed to sunlight (UV) and under certain artificial lighting.
- **Ensure there is not vapour drive at time of application.** ASTM D4263 (plastic sheet test) should be performed after surface preparations as a visual indication of vapor drive prior to installation.
- Any aggregate used must be oven-dried, non-reactive and must not exceed a #32 mesh.
- This product is not designed for negative side waterproofing.
- Direct-fired gas or kerosene heaters produce by-products that can have adverse effects on the curing primer. To avoid this occurrence, heaters must be exhausted to the exterior of the building to avoid defects such as amine blush, whitening, loss of adhesion or other surface deficiencies.

Health and Safety Information

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.

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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