BUILDING TRUST
CONSTRUIRE LA CONFIANCE

PRODUCT DATA SHEET
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TRAFFIC COATINGS

Sikalastic®-2570 W Primer

WATER-BASED EPOXY PRIMER

Description
Sikalastic®-2570 W Primer is a semi-breathable, water-based, two-component epoxy primer, applied to concrete substrates for use with Sikalastic®-2545 W GSC coating.

Where to Use
Priming underground parking garage slab-on-ground concrete surfaces

Advantages
- Water-based, low VOC content
- Excellent penetration and adhesion
- Easy application
- Reduced recoat times

Technical Data

Packaging	18.9 L (5 US gal.) unit
Colour	White transparent after mixing
Yield	3.9 - 4.9 m^2/L (160 - 530 ft^2/US gal.) per coat (3 - 10 mil w.f.t.) *Note: Actual coverage rates and material consumption will depend upon porosity and profile of the substrate. Test areas can be used to establish actual coverage rates.*
Shelf Life	Two (2) year 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 = 1:1 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 Sikalastic®-2545 W GSC or 2nd primer coat

	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

Drying times will vary according to air and substrate temperature and humidity.

VOC Content	Consult Sika Canada
Chemical Resistance	Consult Sika Canada

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.

HOW TO USE

Surface Preparation
Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be removed or repaired to achieve a level surface prior to the application. Rough and or pitted concrete can be repaired and levelled with Sikafloor®-81 or -82 Epocem prior to installation

NOTE: If evidence of soluble precipitates are visible due to high water tables, use appropriate fully breathable treatments instead of Sikalastic®-2570 W/-2545 W GSC.

Surface Preparation *(cont.)*

Concrete

Should be cleaned and prepared to achieve a laitance- and contamination-free, open textured surface by shot blasting or equivalent mechanical means (ICRI / CSP 3 - 4). Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate. Whenever "shot-blasting" is utilized, be careful to leave concrete with a uniform texture. "Over-blasting" will result in reduced coverage rates of the primer and/or subsequent topcoats. The "shotblast" pattern may show through the last coat, known as "tracking".

Cracks

Cracks that are to be overcoated should be routed and filled with a Sika® epoxy resin such as Sikadur®-31 Hi-Mod or equivalent and fully cured prior to installation.

The compressive strength of the concrete substrate should be at least 25 MPa (3625 psi) at 28 days and at least 1.5 MPa (218 psi) in tension at the time of Sikalastic®-2570 W Primer application.

Mixing

Ratio 1:1 by volume.

Premix each component of Sikalastic®-2570 W Primer separately.

Empty Component B in the correct mix ratio to Component A into a suitably sized, clean mixing vessel. Mix the combined components at low-speed (300 - 450 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®-2570 W Primer should be uniform in colour and consistency.

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

Application

Apply primer with a flat squeegee at the rate of 3.9 – 7.8 m²/L (160 – 320 ft²/US gal.) at 0.13 – 0.25 mm (5 – 10 mil) wet film thickness (w.f.t.) and back-roll with pressure. Coverage will vary depending on the porosity of the prepared substrate.

Note: Product has a limited pot life, refer to Technical Data table.

Do not apply by dipping roller into mixing container. Pour a bead of product in the form of a ribbon on the surface to be coated, then spread with squeegee and back roll.

Ensure that the coating is pore- and pinhole-free and provides uniform and complete coverage over the entire concrete substrate. If necessary, apply an additional coat to ensure the coating is pore- and pinhole-free and provides uniform and complete coverage.

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 hot soapy water, use Sika® Epoxy Cleaner cleaning solvent if necessary.

Limitations

- Sikalastic®-2570 W Primer is best installed by skilled and experience 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.
- Prior to application, measure and confirm Substrate Moisture Content, Ambient Relative Humidity, Ambient and Surface Temperature and Dew Point. During installation,confirm and record above values at least once every three (3) hours, or more frequently whenever conditions change (e.g. Ambient Temperature rise / fall, Relative Humidity increase / decrease, etc.).
- **Substrate Moisture Content:** Moisture content of concrete substrate must be ≤ 6 % by mass (pbw– part by weight) as measured with a Tramex® CME/CMExpert type concrete moisture meter on mechanically prepared surface according to this product data sheet (preparation ICRI / CSP 3 - 4). ASTM F2170 testing is not a substitute for measuring substrate moisture content. Use a Tramex® CME/CMExpert type concrete moisture meter as described above. **Ensure there is no 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
- **Material Temperature:** Precondition material for at least 24 hours between 18 and 24 °C (65 and 75 °F)
- **Ambient and Substrate Temperatures:** (Min. / Max.): 10 / 30 °C (50 / 86 °F). Substrate temperature must be at least 3 °C (5 °F) above measured Dew Point. Mixing and Application must adhere to Material, Ambient and Substrate temperatures listed above or a decrease in product workability and slower cure rates will occur.
- **Maximum ambient relative humidity:** 75 % (during application and curing).
- 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.
- **Dew Point:** Beware of condensation! The substrate must be at least 3 °C (5 °F) above the Dew Point to reduce the risk of condensation, which may lead to adhesion failure or "blushing" on the floor finish. Be aware that the substrate temperature may be lower than the ambient temperature.
- Do not hand mix Sikalastic® materials. Mechanically mixing only.

Limitations
(cont.)

- 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.
- Do not apply while ambient and substrate temperatures are rising, as pinholes may occur.
- Will discolor over time when exposed to sunlight (UV) and under certain artificial lighting conditions.
- Do not apply Sikalastic® to concrete substrate containing aggregates susceptible to ASR (Alkali Silica Reaction) due to risk of natural alkali redistribution below the Sikalastic® product after application. If concrete substrate has or is suspected to have ASR (Alkali Silica Reaction) present, do not proceed. Consult with design professional prior to use.
- Any aggregate used with Sikalastic® systems must be non-reactive and oven-dried.

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.

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FOR INDUSTRIAL USE ONLY

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