

**Product Data Sheet**

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Sikalastic® Duochem 389

**Sikalastic® Duochem 389***(Formerly Duochem 389)***Two-Component, Solvent-Free, Elastomeric and Crack-Bridging, Polyurethane Primer**

**Description** Sikalastic® Duochem 389 is a high quality, two-component, solvent free, elastomeric polyurethane primer that is used on rough or porous surfaces prior to the application of the Sikalastic® Duochem flexible waterproofing systems.

**Where to Use** Use as a primer on rough or porous concrete or cementitious surfaces before the application of Sikalastic® Duochem 387 or 390 flexible systems or the Sikalastic® Resoflex balcony waterproofing system. It may also be used as a primer for the Sikalastic® waterproofing systems on new, existing or lightweight concrete slabs. Typical uses include:

- Multi-storey parking garages.
- Parking decks and ramps.
- Foot bridges and walkways.
- Mechanical rooms.
- Stadiums and arenas.
- Plaza and rooftop decks.
- Balconies and terraces.

**Advantages**

- Economical and easy to apply.
- Pre-measured kit packaging.
- Solvent-free and low odour.
- Waterproof.
- Fast curing for accelerated turnaround.

**Technical Data**

**Packaging** 18 L (4.76 US gal.) unit  
**Colour** Clear  
**Yield** 3.9 - 4.9 m<sup>2</sup>/L (160 - 200 ft<sup>2</sup>/US gal.), 8 - 10 mils d.f.t.

Typically one coat is required, though on higher absorbency substrates additional coats maybe required. Actual coverage rates and material consumption will depend upon porosity and profile of the substrate. Test areas are recommended to establish correct coverage rates.

**Shelf Life** 1 year in original, unopened packaging under proper storage conditions. Store dry between 5 - 32°C (41 - 89°F). Condition product to between 18 - 30°C (65 - 86°F) before use.

**Mix Ratio** As supplied

**Properties at 23°C (73°F) and 50% R.H.**

**Solids Content**  
 By volume 100%  
 By weight 100%  
**Pot Life, 250 g (8.8 oz)** 30 minutes

**Drying Times**  
 Recoat time 2 - 6 hours

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

**Flash point**  
 A 282°C (540°F)  
 B 200°C (390°F)

*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

**General:** Surfaces must be clean, dry and sound, with a suitable surface profile. Remove all dust, laitance, grease, oils, tar, asphalt and bitumen, curing compounds, bond inhibiting impregnations, waxes, and any other contaminants. All projections, rough spots, etc. should be ground off to achieve a level surface prior to applying the system.

**Concrete:** Should be cleaned and prepared to achieve a laitance and contaminant free, open surface profile by blast cleaning or equivalent mechanical means, to achieve a profile equivalent to I.C.R.I.-CSP 3-4. Surface defects should be repaired with an appropriate Sika® repair material before beginning installation.

### Mixing

Pre-mix each component of Sikalastic® Duochem 389 separately. Empty component B in the correct mix ratio into the component A container. Mix the combined components for at least 3 minutes, using a low-speed drill (300 - 450 rpm) to minimize entrapping air. Use 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® Duochem 389 should be uniform in colour and consistency. Mix only that quantity which can be used within its pot life.

### Application

Apply Sikalastic® Duochem 389 at a rate of 3.9 to 4.9 m<sup>2</sup>/L (160 to 200 ft<sup>2</sup>/US gal.) depending on surface profile, using a flat or notched squeegee and backroll with a 10 mm (1/2 in) nap roller to provide a uniform and level thickness of 8 to 10 mils. Allow sufficient cure time (2 to 6 hours) at 23°C (73°F) before overcoating.

### Clean Up

Clean all tools and equipment immediately with Sika® Duochem 205 cleaning solvent. One cured, product can only be removed mechanically. Wash hands and skin thoroughly with hot soapy water or use Sika® Hand Cleaner towels.

### Limitations

- 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 polyurethane coatings. Note that low temperatures and low humidity will slow down the cure, and high temperatures and high humidity 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.
- Moisture content of the substrate must be < 4% by weight when coating is applied or use Sikafloor® 81 EpoCem<sup>CA</sup>.
- Do not apply to a porous or damp surface where moisture vapour transmission will occur during application and cure.
- Minimum age of concrete must be 21 - 28 days, depending on curing and drying conditions.
- Substrate must be dry prior to application. Do not apply to frosted, wet or damp surfaces. Do not proceed if rain is imminent within 8 - 12 hours of application. Allow sufficient time for substrate to dry after rain or inclement weather to avoid potential for bonding problems.
- Do not store materials outdoors or exposed to sunlight for prolonged periods.
- Do not hand-mix or thin with solvents: mechanical mix only.
- Not suitable for on-grade, unvented metal pan, split/sandwich slab and buried membrane conditions as well as asphalt.
- Ensure proper ventilation.

### 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 Material 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 shelf life. 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request or can be accessed in the Internet under [www.sika.ca](http://www.sika.ca).



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