



**PRODUCT DATA SHEET**

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EPOXY-RESIN TERRAZZO FLOORING

# Sikafloor® Duochem-305

WATER-BASED, CLEAR, URETHANE-ACRYLIC GLAZE-COAT AND SEALER FOR FLOORS, WALLS AND CEILINGS

<b>Description</b>	Sikafloor® Duochem-305 is a one component, water-based glaze coat and sealer for floors, walls and ceilings. As a urethane acrylic, it provides a clear, flexible high-wear and mild-chemical resistant finish for Sikafloor® and Sikagard® systems, terrazzo, concrete, wood or masonry.
<b>Where to Use</b>	<ul style="list-style-type: none"> <li>Use to protect or restore Sikafloor® and Sikagard® floor, wall and ceiling systems, providing additional wear and chemical resistance.</li> <li>Use to protect or restore, terrazzo, concrete, wood and masonry floors, walls and ceilings against wear and mild chemical exposure.</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>Easy to prepare and use; one component and virtually odourless.</li> <li>Excellent bond to damp surfaces.</li> <li>Cures at temperatures as low as 4 °C (39 °F) without 'blushing'.</li> <li>High wear resistance.</li> <li>Resistant to printing inks and mild chemicals.</li> <li>Clear, glossy or satin finish.</li> <li>Non yellowing.</li> <li>Canadian Food Inspection Agency acceptance.</li> </ul>

**Technical Data**

**Packaging**

18.9 L (5 US gal.)

**Colour & Appearance**

Clear/Glossy or satin finish

**Yield**

**Primer:** Porous, Unsealed Surfaces

Sikafloor® Duochem-305 Gloss & Water (1:1) by volume

14 - 20 m²/L (570 - 817 ft²/US gal.) at 0.8 - 1.1 mils d.f.t. per coat.

1 - 2 coats dependent upon porosity.

**Finish:** Sealed, Non-Porous Surfaces

Sikafloor® Duochem-305 Gloss or Satin

15 - 20 m²/L (610 - 815 ft²/US gal.) at 0.6 - 0.8 mils d.f.t. per coat.

2 coats recommended for complete coverage and optimal performance.

Actual coverage rates and material consumption will depend upon porosity and profile of substrates. Allowance must be also made for variation in film thickness or number of coats required to achieve complete coverage of surfaces. Test sections are recommended to establish correct coverage.

**Shelf Life**

6 months in original unopened container. Store and transport dry at 5 -32 °C (41 -89 °F). Protect from freezing. If frozen, discard product. Condition product between 18 and 30 °C (65 -86 °F) before using.

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

**Solids Content**

By volume 39 - 41 %

By weight 41 - 43 %

**Drying Times**

Touch dry 30 - 60 minutes

Recoat 5 - 6 hours

Full cure 24 hours

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

**Water Vapour Transmission ASTM E96**

Water method B 20.0 perms

**Abrasion Resistance ASTM D4060**

Taber Abraser, CS-17 Wheel/  
1000 g (2.2 lb)/1000 cycles 43 mg loss (1.1 mil groove)

**Bond Strength ASTM D4541**

(primed concrete) > 1.73 MPa (> 250 psi) (substrate failure)

**Tensile Strength ASTM D2370**

High yield 10.2 MPa (1479 psi)

At break 15.2 Mpa (2204 psi)

**Elongation ASTM D2370**

High yield 17.2 %

At break 300 %

**VOC** 195 - 200 g/L

*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

<b>Surface Preparation</b>	<p><b>Concrete, Masonry and Wood Surfaces:</b> The substrate must be clean and sound. Remove any dust, laitance, grease, oil, dirt, curing agents, impregnations, wax, foreign matter, coatings and deleterious material from the surface by appropriate mechanical means, in order to achieve a profile equivalent to ICRI-CSP 2.</p> <p><b>Epoxy Terrazzo Flooring:</b> To prepare surface for a rejuvenating coat or if grout coat has been cured longer than 48 hours, mechanically sand the existing surface and vacuum all dust and debris. Where surface is questionable, conduct an adhesion test before proceeding.</p>
<b>Mixing</b>	<p>Stir the material thoroughly, using a slow speed (300 - 450 rpm.) drill and Sika or Jiffy style paddle, to ensure all solids are evenly distributed and even clarity and consistency is achieved throughout the product.</p> <p><b>Note:</b> When treating porous surfaces Sikafloor® Duochem-305 Gloss must be used as a primer and must be thinned at a ratio of 1:1 by volume with potable water before application.</p> <p>Stir the material frequently during use to ensure correct dispersion of active ingredients. This is particularly important after breaks in work.</p>
<b>Application</b>	<p>Apply Sikafloor® Duochem-305 (Gloss thinned with water as a primer on unsealed and porous surfaces) using a natural bristled brush, short nap or long hair roller (dependent upon surface profile) or spray equipment.</p> <p>Ensure the recommended film thicknesses are achieved and the yields are not exceeded.</p> <p>Freshly applied material will firstly form a white and foamy film which will become completely clear during cure.</p> <p><b>Note:</b> Sika Canada strongly recommends that a test area be applied to confirm specific top coat selection and application rates required to produce the desired final appearance.</p>
<b>Clean Up</b>	<p>Clean all tools and equipment immediately with warm water. One cured, product can only be removed mechanically. Wash hands and skin thoroughly with hot soapy water or use Sika® Hand Cleaner towels.</p>
<b>Limitations</b>	<ul style="list-style-type: none"><li>▪ For interior use only; not suitable for exterior applications.</li><li>▪ Minimum ambient/substrate application temperature: 13 °C (55 °F).</li><li>▪ Maximum ambient/substrate application temperature: 30 °C (86 °F).</li><li>▪ Maximum relative humidity: 75 %.</li><li>▪ Protect product from freezing during storage, transport and use. If frozen discard material.</li><li>▪ Do not hand mix Sikafloor® materials; always mix mechanically.</li><li>▪ Priming is mandatory on unsealed new substrates and must be undertaken with Sikafloor® Duochem-305 Gloss thinned with water.</li><li>▪ Application of a single coat of Sikafloor® Duochem-305 as a glaze or sealer may result in a premature loss of appearance. Always follow 2 top-coat application process.</li><li>▪ Avoid excessively thick applications to prevent loss of scratching resistance (glossy version) and whitish appearance (satin version). Not recommended for high gloss wooden floors.</li><li>▪ Do not apply material at temperatures lower than 4 °C (39 °F). Recoat time will be lengthened by approximately 50 % if the temperature is lower than 13 °C (55 °F).</li><li>▪ Although non yellowing, Sikafloor® Duochem-305 is not recommended for exterior application since deterioration will occur under adverse weather conditions</li></ul>
<b>Health and Safety Information</b>	<p>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.</p> <p>KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY</p>

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](http://www.sika.ca)

### SIKA CANADA INC.

**Head Office**  
601, avenue Delmar  
Pointe-Claire, Quebec  
H9R 4A9

**Other locations**  
Toronto  
Edmonton  
Vancouver

**1-800-933-SIKA**  
**[www.sika.ca](http://www.sika.ca)**

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