Sikafloor® Morritex Broadcast System
NEAT/BROADCAST SURFACING OF 2 - 3 MM (80 - 120 MILS)

Description
Sikafloor® Morritex Broadcast System is a solid colour, high gloss, textured, resin-rich, aggregate-filled, seamless, epoxy-based floor coating. The incorporation of durable, hard aggregate broadcast and sealed into the surface, economically increase coating thickness, extending life expectancy against aggressive wear. Typically installed to protect new or existing concrete floors at a thickness range of 2 - 3 mm (80 - 120 mils). This light to heavy duty, general service epoxy coating demonstrates good chemical resistance as well as high abrasion and impact resistance. Sikafloor® Morritex Broadcast System can be customized to meet aesthetic and slip resistance requirements. Final surface appearance options include: unlimited colour selection, integral cove base, gloss, satin or matte surface sheen and variable surface texture to produce a range of slip-resistant finishes.

Where to Use
- Animal care facilities.
- Correctional facilities.
- Corridors and assembly areas.
- Food processing areas.
- Light to heavy duty manufacturing areas.
- Locker and shower rooms.
- Service bays and car washes.
- Interior slip resistant floors.

Advantages
- High abrasion and impact resistance.
- Good chemical resistance.
- Improved thermal shock resistance.
- Variety of slip-resistant surface profiles.
- Durable, impermeable and seamless.
- Easily cleaned, maintained and a more sanitary work environment.
- Does not support growth of bacteria or fungus.
- Neutral odour.
- Unlimited colours, no minimum required.
- Achieves high performance ratings according to ASTM G21 resistance to fungi and ASTM D3273 resistance to mold growth (special order grade).
- Canadian Food Inspection Agency acceptance/USDA acceptance.

Technical Data

<table>
<thead>
<tr>
<th>Packaging</th>
<th>Sikafloor® 261&lt;sup&gt;©&lt;/sup&gt; 10 L and 30 L (2.6 and 7.9 US gal.) units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Refer to the Industrial Flooring and Coatings colour card.</td>
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<tr>
<td>RAL 7038 Agate Grey</td>
<td>RAL 5007 Brilliant Blue</td>
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<tr>
<td>RAL 7030 Stone Grey</td>
<td>RAL 6028 Pine Green</td>
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<tr>
<td>RAL 1001 Beige</td>
<td>RAL 7012 Basalt Grey</td>
</tr>
<tr>
<td>RAL 1018 Zinc Yellow</td>
<td>RAL 9003 Signal White</td>
</tr>
<tr>
<td>RAL 3010 Brick</td>
<td>Custom colours available upon request. Refer to current price list for availability.</td>
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</tbody>
</table>

Yield

| Prime coat | Sikafloor® 261<sup>©</sup> 5 m²/L (200 ft²/US gal.) (8 mils w.f.t.) |
| Broadcast coat | Sikafloor® 261<sup>©</sup> 0.9 m²/L (36 ft²/US gal.) (45 mils w.f.t.) |
| Top coat | Sikafloor® 261<sup>©</sup> 2 - 4 m²/L (80 - 160 ft²/US gal.) (10 - 20 mils w.f.t.) |

Silica sand:
- 5 - 10 kg/m² (1 - 2 lb/ft²)
- # 32 medium (spherical)
- 0.3 - 0.85 mm
- # 16 coarse (angular)
- 0.6 - 2.0 mm

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 opacity with light (i.e. white) or bright colours (i.e. reds and yellows) on dark substrates. Test sections are recommended to establish correct coverage.
Shelf Life
2 years in original unopened packaging. 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 using.

Mix Ratio
A:B = 2:1 by volume

Service Temperature
Min. 0 °C (32 °F)
Max. 50 °C (122 °F)
Short term exposure 100 °C (212 °F)

Pot Life, 250 g (8.8 oz)
40 min

Open Time on Substrate (min)
10 °C (50 °F) 20 °C (68 °F) 30 °C (86 °F)
80 50 35

Waiting Time Between Coats (h) (min., max.)
Foot traffic
2 1 18 h
Light traffic
4 2 2
Normal traffic
10 7 5

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

Specific Gravity ASTM D1475
A: 1.52 (12.6) kg/L (lb/US gal.)
B: 1.01 (8.39)
A+B: 1.40 (11.6)

Viscosity
A+B: 550 cps

Compressive Strength ASTM C579
56 MPa (8122 psi)

Tensile Strength ASTM C307
11 MPa (1595 psi)

% Elongation
3.1 %

Bond Stress CSA/CAN23.2-6B
> 2 MPa (290 psi) (substrate failure)

Thermal Compatibility ASTM C884

Flexural Strength ASTM C580
5 MPa (725 psi)

Mod. of Elasticity
3.3 GPa (478 625 psi)

Impact Resistance ASTM D2794
2.03 joules (1.49 ft lb.)

Abrasion Resistance ASTM D4060
CS17/1000 cycles/1000 g (2.2 lb) 0.07 g (0.0024 oz)

Coefficient of Friction ASTM D1894-61T
Steel 0.33
Rubber 0.90

Coefficient of Thermal Expansion ASTM D696
0.53 x 10^-6 mm/mm/°C (0.29 x 10^-6 in/in/°F)

Water Absorption ASTM C413
0.3 %

Resistance to Fungi Growth ASTM G21
Rated 1 (traces of growth)

Resistance to Mold Growth ASTM D3273
Rated 10 (highest resistance)

VOC Content
Binder: 48 g/L - Aggregate: 0 g/L

Chemical Resistance
Consult Sika Canada

HOW TO USE

Surface Preparation
The concrete surface must be clean and sound. Remove any dust, laitance, grease, oil, dirt, curing agents, impregnations, wax, foreign matter, coatings and detritus from the surface by appropriate mechanical means, in order to achieve a profile equivalent to ICRI / CSP 3 - 5. 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 application of Sikafloor®-261CA.

Mixing (Prime Coat - Broadcast Coat - Top Coat)
Pre-mix each component separately. Empty component B in the correct mix ratio to component A. Mix the combined components for at least three (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, Sikafloor®-261CA should be uniform in colour and consistency. Mix only that quantity which can be used within its pot life.

Application Prime Coat: Apply the prime coat using a squeegee and backroll. Avoid puddling.

Broadcast Coat: Once the prime coat is tack-free, apply the broadcast coat onto the substrate using a notched squeegee or trowel and backroll to an even coverage. Broadcast the selected sand (selected for texture) into the broadcast coat to rejection.

Top Coat: Once the broadcast coat has sufficiently cured to allow foot traffic, sweep-up and vacuum the loose unbonded sand. Apply the top coat using a squeegee, followed by backrolling to provide a uniform texture and finish.

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

Limitations
- Minimum / Maximum substrate temperature 10 °C / 30 °C (50 °F / 86 °F).
- Maximum relative humidity during application and cure: 85 %.
- Substrate temperature must be 3 °C (5.5 °F) above the measured dew point.
- Moisture content of the substrate must be < 4 % when coating is applied or use Sikafloor®-81 EpoCem®CA.
- Do not apply to porous surfaces where moisture vapour transmission will occur during application.
- Not suitable for use on exterior, slab-on-grade concrete substrates.
- Protect from dampness, condensation and water contact during the initial 24 hour cure period.
The influence of colour selection should be allowed for in material consumption/coverage. Light or bright colours may require higher wet film thicknesses or additional coats to achieve desired opacity. Consult Sika Canada for guidance at time of colour selection.

- Surface may discolour in areas exposed to ultraviolet light, use Sikafloor® Duochem-942 (Clear or Coloured) as a seal coat if required or contact Sika Canada prior to specification or application for advice.

- Do not hand-mix Sikafloor® materials; mechanical-mix only.

**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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Certified ISO 14001 (CERT-0102791)