

Sikafloor® 261^{CA}

System data sheet

Description At the leading edge of technology, Sikafloor® 261^{CA} is a two-component, solvent and silicone-free, low-viscosity, self-priming, high-strength pigmented epoxy resin binder used for:
Smooth finish coating
Thixo coating (textured)
Neat/Broadcast surfacing
Self-leveling/Broadcast surfacing
Self-leveling smooth surfacing
Mortar screed
Wet processing/Cold storage surfacing

Where to Use

- Institutional buildings.
- Recreational complexes.
- Storage and logistic areas.
- Wet and dry processing areas.

Advantages

- Easy application.
- Good chemical and mechanical resistance.
- Good adhesion to the substrate.
- Easily cleaned, maintained and a more sanitary work environment.
- Durable, impermeable, seamless and aesthetic.
- Does not support growth of bacteria or fungus.
- Neutral odour.
- Unlimited colours, no minimum required.
- Canadian Food Inspection Agency acceptance/ USDA acceptance.

Technical Data

Packaging

10 L and 30 L (2.6 and 7.9 US gal.) units

Colour

Refer to the Industrial Flooring and Coatings colour card.

Standard colours:

RAL 7038 Agate Grey	RAL 5007 Brilliant Blue
RAL 7030 Stone Grey	RAL 6028 Pine Green
RAL 7012 Basalt Grey	RAL 3010 Brick
RAL 1015 Light Ivory	RAL 1018 Zinc Yellow
RAL 1001 Beige	

Shelf Life

2 years in original unopened packaging. Store dry between 5° - 32°C (41° - 89°F). Condition to 18° - 30°C (65° - 86°F) before using.

Mixing Ratio

A:B = 2:1 by volume

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

Specific Gravity ASTM D 1475

kg/L (lb/US gal.)

A:	1.52 (12.6)
B:	1.01 (8.39)
A+B:	1.40 (11.6)

Viscosity

A+B: 550 cps

Service Temperature

Min. 0°C (32°F)
Max. continuous exposure 50°C (122°F)
Short term exposure 100°C (212°F) (depending on system)
Contact your Sika Technical Sales Representative

	10°C (50°F)	20°C (68°F)	30°C (86°F)
Pot Life, 250 g (8.8 oz) (min)	60	40	15
Open Time on Substrate (min)	80	50	35
Waiting Time Between Coats (hrs) (min./max.)	30/72	8/48	6/24

Curing Time (days)

Foot traffic	2	1	18 hrs
Light traffic	4	2	2
Normal traffic/Chem. exp.	10	7	5

Compressive Strength ASTM D 695

Floor Coating Systems

(Refer to individual system data sheet systems)

1-Smooth Finish Coating (20-30 mils)

Prime coat	1 x Sikafloor® 261 ^{CA}
Top coat	1 x Sikafloor® 261 ^{CA}

2-Thixo Coating (Textured) (20-24 mils)

Primer coat	1 x Sikafloor® 261 ^{CA}
Top coat	1 x Sikafloor® 261 ^{CA} Thixo

3-Neat/Broadcast Surfacing [2-3 mm (80-120 mils)]

Prime coat	1 x Sikafloor® 261 ^{CA}
Base coat	1 x Sikafloor® 261 ^{CA}
Broadcast	Sand selected for slip resistance
Top coat	1 x Sikafloor® 261 ^{CA}

4-Self-leveling/Broadcast Surfacing [3-6 mm (1/8-1/4 in)]

Prime coat	1 x Sikafloor® 261 ^{CA}
Base coat	1 x Sikafloor® 261 ^{CA} + sand
Broadcast	Sand selected for slip resistance
Top coat	1 x Sikafloor® 261 ^{CA}

5-Self-Leveling Smooth Surfacing [2-4 mm (80-160 mils)]

Prime coat	1 x Sikafloor® 261 ^{CA}
Self-leveling coat	1 x Sikafloor® 261 ^{CA} + sand

6-Mortar Screed [3-6 mm (1/8-1/4 in)]

Prime coat	1 x Sikafloor® 156 ^{CA}
Mortar screed	1 x Sikafloor® 156 ^{CA}
Top coat	1-2 x Sikafloor® 261 ^{CA}

7-Wet Processing and Cold Storage Surfacing [2.5-6 mm (3/32-1/4 in)]

Prime coat	1 x Sikafloor® EpoCem Module ^{CA}
Self-leveling mortar	1 x Sikafloor® 81 EpoCem ^{CA}
Broadcast	Sand selected for slip resistance
Top coat	1 x Sikafloor® 261 ^{CA}



Tensile Strength ASTM D 638	7.4 MPa (1073 psi)
% Elongation	22.4%
Bond Strength ASTM D 4541	> 2 MPa (290 psi) (substrate failure)
Thermal Compatibility ASTM C 884	Passes
Hardness, Shore D ASTM D 2240	76
Indentation MIL-PRF-24613	8.82% (returns to profile)
Impact Resistance ASTM D 2794	5.88 joules (4.33 ft lbf)
Abrasion Resistance ASTM D 4060 CS17/1000 cycles/1000 g (2.2 lb)	0.11 g (0.0038 oz)
Coefficient of Friction ASTM D 1894-61T*	Steel 0.20-0.35 Rubber 0.55-0.95
*Depending on system	
Flammability ASTM D 635	35 mm (1.37 in)
Coefficient of Thermal Expansion ASTM D 696	1.27 x 10 ⁻⁴ mm/mm/°C (0.70 x 10 ⁻⁴ in/in/°F)
Water Absorption ASTM D 570	0.3%

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 deleterious material from the surface by an appropriate mechanical means, i.e., steel shotblasting, or any other method approved by Sika. 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® 261 ^{CA} .
Mixing	Pre-mix each component separately. Empty component B in the correct mix ratio to component A. Mix the combined components for at least 3 min 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® 261 ^{CA} should be uniform in colour and consistency. Mix only that quantity that can be used within its pot life. For mixing instructions on broadcast, thixo, self-leveling and mortar screed systems, refer to the technical data sheet specific to each system.
Application	Apply the prime coat onto the substrate using a brush, roller or squeegee, at a uniform coverage without ponding. Once the prime coat is tack free, apply the wear coat using a squeegee or roller and backroll to achieve even coverage. If time between coats exceeds 48 hours @ 22°C (71°F), abrade surface and wipe clean with a solvent dampened cloth. For application instructions on broadcast, thixo, self-leveling and mortar screed systems, refer to the technical data sheet specific to each system.
Clean Up	Clean all tools and equipment with Sika® Equipment Cleaner/Epoxy Thinner. Wash soiled hands and skin thoroughly in hot soapy water or use Sika® Hand Cleaner. Once hardened, product can only be removed mechanically.
Limitations	<ul style="list-style-type: none"> ■ 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. ■ Surface may discolour in areas exposed to constant ultra violet light. ■ Do not hands mix Sikafloor® materials / mechanical mix only.
Caution	Component A - Irritant - Contains epoxy resins. Prolonged contact with skin may cause irritation. Avoid eye contact. Component B - Irritant - Contains amines. Contact with skin may cause severe burns. Avoid eye contact. Avoid breathing vapours. Product is a strong sensitizer. Use of safety goggles, chemical-resistant gloves and a NIOSH/MSHA organic vapour respirator is recommended. Use adequate ventilation. Consult product label for additional information.
First Aid	In case of skin contact, wash with soap and water. For eye contact flush immediately with plenty of water for at least 15 min. Contact a physician. For respiratory problems, transport victim to fresh air. Remove contaminated clothing and wash before re-use. For more information, consult Sika Material Safety Data Sheet. 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 Technical 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.

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