BUILDING TRUST
CONSTRUIRE LA CONFIANCE

PRODUCT DATA SHEET
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SPECIALTY FLOORING

Sikafloor® Comfort Adhesive

HIGH QUALITY, SOLVENT- AND VOC-FREE, POLYURETHANE ADHESIVE FOR SOUND INSULATING PAD UNDERLAYMENTS IN Sika ComfortFloor® SYSTEMS

Description

Sikafloor® Comfort Adhesive is a two-component, high solids and VOC-free polyurethane adhesive used to permanently adhere prefabricated granular rubber pads to concrete and cementitious screed surfaces. It is particularly suitable to adhere Sikafloor® Comfort Regupol-6015H mats to floor surfaces prior to the application of Sika ComfortFloor® Pro and Sika ComfortFloor® Decorative Pro systems.

Where to Use

Suitable for interior use in public and commercial buildings including:
- Healthcare facilities; hospitals, nursing stations, clinics, residential homes
- Educational premises; pre-schools, schools, colleges, universities
- Retail spaces; stores, superstores, showrooms
- Research areas; laboratories, corridors
- Leisure premises; museums, art galleries, theatres
- Business facilities; lobbies, passage-ways, offices

Advantages

- VOC-free
- Solvent-free
- Easy to apply
- High bond characteristics
- Non shrinking after cure
- Non flammable
- Permanently secures sound reduction mats beneath Sika ComfortFloor® systems

Technical Data

Packaging	20 kg (44 lb) ready to mix kits Part A: 17 kg (37.4 lb), Part B: 3 kg (6.6 lb)	
Colour	Beige	
Yield	~ 0.45 - 0.90 kg/m² (0.09 - 0.18 lb/ft²)	
Shelf Life	12 months in original, unopened containers when stored in dry and cool conditions (10 - 30 °C [50 - 86 °F]).	
Pot Life	Time	Temperature
	~ 60 minutes	10 °C (50 °F)
	~ 45 minutes	20 °C (68 °F)
	~ 30 minutes	30 °C (86 °F)

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

Density	Mixed Resin: 1.49 kg/L (12.42 lb/US gal.)	
Tensile Strength DIN 53504	14 days	~ 9 MPa (1305 psi)
Bond Strength EN 13892-8	> 1.5 MPa (217 psi) (concrete failure)	
Shore A Hardness DIN 53505	14 days	~ 93
Elongation at Break DIN 53504	14 days	~ 50 %
VOC Content	0 g/L	
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

All surfaces must be clean, sound and dry before proceeding with the installation of the Sikafloor® system.

Where applying onto concrete or similar substrates, remove all dirt and dust, laitance, grease, oil, asphalt, tar, bituminous materials, grease, curing agents, impregnations, wax, foreign matter, impregnations, coatings or sealers and detritus from the surface by appropriate mechanical means, such as abrasive blast cleaning or pressure jetting in order to achieve a contaminant free profile equivalent to ICRI / CSP 3.

Whenever abrasive blast cleaning is used, be careful to leave concrete with a uniform texture. Over blasting will result in increased consumption/reduced coverage rates of the adhesive.

All projections, rough spots etc must be ground off and the surface suitable level before proceeding. Rough surfaces need to be leveled prior to application of a self leveling/smoothing topping. Contact Sika Canada for project specific recommendations.

Following surface preparation remove all preparation residue, including dirt and loose friable material, preferably by industrial wet/dry vacuum (sweeping can result in making dust airborne to settle on the floor surface at a later juncture). This will help to ensure a tenacious bond between the primer and substrate

The compressive strength of the concrete substrate should be at least 24 MPa (3500 psi) at 28 days and at least 1.7 MPa (250 psi) in tension following preparation of the substrate at the time of application of Sikafloor® Comfort Adhesive.

Mixing

Pre-stir each component using a low speed drill (300 - 400 rpm) and *Jiffy* type paddle until uniform in colour and consistency. Prolonged vibration and higher ambient temperatures during transportation can result in settling of the resin component. In the case of Part A, this requires mechanical mixing for a period of at least two (2) minutes to ensure that all solids are dispersed and evenly distributed.

Empty Part B into Part A and thoroughly mix for two (2) minutes using a low-speed drill (300 - 400 rpm) and *Jiffy* or *Exomixer®* type paddle.

Note: Mix only full units and that quantity you can use within its pot life. While mixing, keep the mixing paddle within the resin and below the surface in order to minimize air entrapment. During the mixing operation, scrape down the sides and bottom of the pail with a flat or straight edge trowel at least once to ensure thorough mixing. Over mixing must be avoided to minimize air entrainment.

Upon completion of mixing, Sikafloor® Comfort Adhesive should be uniform in colour and consistency.

Application

Apply Sikafloor® Comfort Adhesive by pouring out the mixed material as quickly as possible within the pot life and then spreading immediately with a notched trowel. Trowel only 75 mm (3 in) wider than the width of the Sikafloor® Comfort Regupol underlayment to be bonded. Apply the Sikafloor® Comfort Regupol underlayment into the wet adhesive and ensure complete contact using a (55 kg [120 lb]) linoleum roller while the adhesive is still tacky.

The 'tack phase' during which the Sikafloor® Regupol underlayment must be applied into the Sikafloor® Comfort Adhesive will be influenced by temperature, but the adhesive must be wet, for example:

Substrate Temperature	Minimum	Maximum
10 °C (50 °F)	~ 3 hours	~ 6 hours
20 °C (68 °F)	~ 1 1/2 hours	~ 3 hours
30 °C (86 °F)	~ 1 hour	~ 1 1/2 hours

Note: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

Clean Up

Clean all tools and application equipment with Sika® Urethane Thinner and Cleaner immediately after use. Once hardened, product can only be removed mechanically.

Limitations

- Sika ComfortFloor® Systems are best installed by skilled and experienced applicators. Consult Sika Canada for advice and recommendations.
- Prior to application, measure and confirm the following: 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.).
- **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.
- Moisture content of concrete substrate must be ≤ 4 % 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 to ICRI / CSP 3). Do not apply to concrete substrate with moisture levels exceeding 4 % mass (pbw – part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate exceeds 4 % by mass (pbw – part by weight), as measured with Tramex® CME/CMExpert type concrete moisture meter, use Sikafloor®-1610 or Sikafloor®-81 EpoCem®CA.
- When relative humidity tests for concrete substrate are conducted per ASTM F2170 for project specific requirements, values must be ≤ 85 %. If values exceed 85 % according to ASTM F2170, use Sikafloor®-1610 or Sikafloor®-81 EpoCem®CA. ASTM F2170 testing is not a substitute for measuring substrate moisture content with a Tramex® CME/CMExpert type concrete moisture meter as described above.
- Do not apply while ambient and substrate temperatures are rising. Ensure there is no vapor drive at the time of application. Refer to ASTM D4263, may be used for a visual indication of vapour drive.
- Uncured material reacts in contact with water, which will result in foaming. During application, care must be taken that no sweat drops into fresh Sikafloor® Comfort Adhesive (wear head and wrist bands).
- Use of unvented heaters and certain heat sources may result in defects (e.g. blushing, whitening, debonding, etc.)
- Maximum ambient relative humidity (during application and cure): 80 %.
- Protect from damp, condensation and water for at least 24 hours.

- Do not apply Sikafloor® products to concrete substrate containing aggregates susceptible to ASR (Alkali Silica Reaction) due to risk of natural alkali redistribution below the Sikafloor® 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
- Minimum/Maximum ambient and substrate temperatures: 10 °C / 30 °C (50 °F /85 °F).
- Material temperature: Precondition material for at least 24 hours at temperatures between 18 and 24 °C (65 and 75 °F).
- Mixing and application attempted at material, ambient and/or substrate temperature conditions less than 18°C (65°F) will result in a decrease in product workability and slower cure rates.
- Do not hand mix Sikafloor® materials. Mechanical mixing only.
- Product must not be thinned/diluted as this will effect the critical time for installation of the underlayment, the cure and reduce the ultimate properties of the adhesive.
- Mechanical, chemical & physical properties will be fully achieved at full cure.
- This product is not designed for negative side waterproofing.
- Typically not recommended for exterior slabs on grade where freeze/thaw conditions may exist.
- Do not apply on substrates with a slope exceeding 1 %.

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

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