BUILDING TRUST
CONSTRUIRE LA CONFIANCE

PRODUCT DATA SHEET

Sikafloor®-297 CF

Epoxy Crack Filler

PRODUCT DESCRIPTION

Sikafloor®-297 CF is a two-component, 100% solids, VOC compliant, sag resistant, epoxy gel used to fill vertical and horizontal, non-moving joints and cracks. It has excellent adhesion to properly prepared concrete, masonry, wood, and metal.

WHERE TO USE

Sikafloor®-297 CF may only be used by experienced professionals.

- Typically installed on industrial, commercial, or residential projects to fill new or repair existing non-moving contraction joints, random cracks, and fill minor spalling.
- Ideal to form a round or flat fillet to create a sealed, seamless connection between the floor and vertical surfaces, such as walls, machine bases, and curbs.

CHARACTERISTICS / ADVANTAGES

- Easy to use 2:1 mix ratio.
- Non-sag characteristic allows horizontal and vertical application.
- Low VOC / low odor suitable for application in occupied facilities.
- Can be used on large vertical surfaces.
- Very good mechanical and chemical resistance.
- Excellent adhesion on a wide variety of prepared substrates.
- Durable, load-bearing filler suitable to withstand industrial traffic.

APPROVALS / CERTIFICATES

- Meets the requirements of CFIA and USDA for use in food plants.

PRODUCT INFORMATION

CSC MasterFormat®	**07 92 16 | RIDGED JOINT SEALANT / 09 67 00 | FLUID-APPLIED FLOORING**
Packaging	Component A : 2 L (0.5 gal US) Component B : 1 L (0.3 gal US) Components A+B : 3 L unit (0.8 gal US)
Shelf Life	12 months in original unopened packaging.
Storage Conditions	Store dry between 5 °C and 32 °C (41 °F and 89 °F)
Colour	Clear/ Whitish haze

Volatile organic compound (VOC) content < 25 g/L

APPLICATION INFORMATION

Mixing Ratio	A:B = 2:1 by volume
Consumption	**Crack fill**: ~28 m/L (~350 ft/US gal.) - 3mm (1/8 in) wide X 10 mm (3/8 in) deep **Corner fillet:** ~3.0 m/L (~38 ft/US gal) - 25mm (1 in) radius fillet - floor to wall **Note:** Actual coverage rates and material consumption will depend upon crack width, porosity, and profile of substrates. Test sections are recommended to establish correct coverage.
Product Temperature	Condition product at temperatures between 18 °C to 30 °C (65 °F to 86 °F) before using.
Ambient Air Temperature	Minimum: 10 °C (50 °F) Maximum: 30 °C (85 °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.
Relative Air Humidity	Maximum 85 % (during application and curing)
Dew Point	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.
Substrate Temperature	Minimum: 10 °C (50 °F) Maximum: 30 °C (85 °F) Do not apply while ambient and substrate temperatures are rising, as pinholes may occur. Ensure there is no vapour drive at the time of application.
Substrate Moisture Content	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.
Pot Life	**Material Temperature** **Time** 23 °C (73 °F) ~40 minutes
Curing Time	**Ambient & Substrate Temperature** **Tack Free** **Full Cure** 23 °C (73 °F) ~5 hours ~5 days Curing times will vary according to ambient air and substrate temperatures and relative humidity. Freshly applied material should be protected from dampness, condensation, and water for at least 48 hours. Mechanical, chemical, and physical properties will be fully achieved at full cure.

BASIS OF PRODUCT DATA

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. Properties tested at 23 °C (73 °F) and 50% R.H. unless stated otherwise.

LIMITATIONS

- Do not apply on porous surfaces where a transfer of moisture vapour may occur during application.
- This product is not designed for negative side waterproofing. Application of a coating on a concrete substrate in contact with the ground, without a functioning below slab moisture barrier, increases the risk of detachment.
- Typically, not recommended for exterior slabs on grade where freeze/thaw conditions may exist.
- Do not apply to substrates exposed to extreme thermal shock.
- Product will discolour over time when exposed to sunlight (UV) and under certain artificial lighting conditions.
- Do not apply in moving cracks or joints which are designed for or exhibit movement.
- Direct-fired gas or kerosene heaters produce by-products that can have adverse effects on the curing product. To avoid this occurrence, heaters must be exhausted to the exterior of the building to avoid defects such as amine blush, whitening, loss of adhesion or other surface deficiencies.
- Beware of air flow and changes in air flow. Introduction of dust, debris, and particles, etc. may result in surface imperfections and other defects.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological, and other safety related data.

APPLICATION INSTRUCTIONS

SUBSTRATE 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 such as shot blasting, grinding or other mechanical means to achieve an open surface profile equivalent to ICRI / CSP 3 – 4 similar in texture to fine sandpaper. The compressive strength of the concrete substrate should be at least 25 MPa (3,625 psi) at 28 days and at least 1.5 MPa (218 psi) in tension at the time of application of Sikafloor®-297 CF.

MIXING

Mix Ratio: A:B 2:1 by volume. Do not hand mix Sikafloor®-297 CF materials. Mechanically mix only.

Pre-mix each component separately. Empty Component B (Hardener) in the correct mix ratio to Component A (Resin). 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® or Jiffy 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®-297 CF should be uniform in colour and consistency. Mix only that quantity which can be used within its pot life.

Extended Mortar: Where additional filler is required to produce a patching or repair mortar, oven dried silica sand may be added at a maximum ratio of 3 parts by weight of oven dried silica sand to 1-part mixed neat resin until the desired consistency is achieved. **Important:** Avoid adding excess silica sand as material will become too dry to provide adequate adhesion.

APPLICATION

Cracks and Joints: Spread Sikafloor®-297 CF using an appropriate spatula or trowel to force material into voids and finish by smoothing it flush with the adjoining surfaces.

Corner Fillet: Apply a bead of Sikafloor®-297 CF material at the floor to wall interface. Using a rounded or flat cove tool, force the bead of material into the corner to form the appropriate shape and finish by smoothing the edges flush with adjoining surfaces.

CLEAN UP

Clean all tools and equipment with xylol cleaner. Once hardened, product can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

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 in accordance with Sika's recommendations. 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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