

PRODUCT DATA SHEET

SikaFill® C

Elastic coating for “in situ” waterproofing

PRODUCT DESCRIPTION

Elastic coating of creamish consistency, made from styrene-acrylic copolymers in aqueous emulsion, that once dried forms a flexible, waterproofing and long-lasting film.

It fulfils the UNE 53.413 Standard, “revestimientos flexibles a base de polímeros en dispersión acuosa, sin armadura, para impermeabilizaciones “in situ” en la edificación”, to be applied to vertical pavements.

Using an adequate synthetic cloth reinforcement, it fulfils UNE 53.410 Standard “Láminas flexibles de aplicación “in situ” a base de copolímeros en dispersión acuosa, con armadura, para impermeabilizaciones en la edificación”.

USES

Visitable roof waterproofing over different kinds of substrates: paving tiled terraces, sprayed polyurethane foam, fiber cement, zinc, aluminium, wood, tiles, brick, bituminous ones, mortar, concrete, asphaltic sheets with aluminium or slate finishing, etc. If sheets have an anti-adhesion film, it should be burnt before the application of SikaFill C.

- Walls protection against water infiltrations.
- Vertical pavements, canalizations, etc.
- Joints and cracks bridging.
- Tiles and zinc gutter repairs.
- Chimney's joints treatment.

If applied over PVC, polyester, or paintings it is recommended to make pretrials “in situ” in order to determine its compatibility, and if it is necessary, to make a previous treatment of the substrate.

CHARACTERISTICS / ADVANTAGES

- Waterproofing
- Good UV resistant.
- High elasticity.
- Circulable.
- High weathering durability.
- Easy cold application by traditional ways.
- Easy to homogenize, it does not present clots, skin or solid deposits.
- Good penetration into cracks and micro-cracking resistance.
- Able to follow the dilatation and shrinkage substrate movements without cracking.
- Good adherence to most of the substrates: concrete, mortar, fiber cement, tiles, bricks, steel, zinc, aluminium, bituminous ones.
- Water based, non-toxic

PRODUCT DATA

FORM

COLOURS

Grey, white. Other color may be available, please check before ordering

PACKAGING

20kg/pail

STORAGE

STORAGE CONDITIONS / SHELF-LIFE

12 months from date of production if stored properly in undamaged and unopened original sealed packaging in cool dry conditions. Protect from direct sunlight and frost.

TECHNICAL DATA

CHEMICAL BASE

Styrene-acrylic copolymers in aqueous emulsion

SOLIDS CONTENT BY WEIGHT

Approx. 66%

DENSITY

Approx. 1.2 kg/l

VOC DATA

VOC content (ready to use) not exceeding 50 gm/litre [Type of regulated paint under the Air Pollution Control (volatile organic compounds) Regulation of Hong Kong: (roof coatings (exposed))].

MECHANICAL / PHYSICAL PROPERTIES

DRYING TIMES

(According to UNE 48.086) at 20°C

Touch dry : approx. 2 hours

Totally dry : approx.. 3-5 hours

ELONGATION AT BREAK

(According to UNE 53.165)

350%

TENSILE STRENGTH

(According to UNE 53.165)

min. 10kg/cm²

FOLDING AT -5°C

(According to UNE 53.358)

It does not crack

PERCUSSION RESISTANCE

(According to UNE 53.358)

≥500mm of falling height

ACCELERATED AGEING 1000 HOURS AT 70°C

(According to UNE 53.104)

Elongation loss <40%

THERMAL AGEING

(According to UNE 53.358)

Mass loss <10%

Elongation loss <35%

SYSTEM INFORMATION

APPLICATION DETAILS**CONSUMPTION / COVERAGE**

Roofs and terraces : at least 2 kg/m² in two or more layers

Vertical pavements: at least 1 kg/m² applied in two layers

SURFACE PREPARATION

In any case, the substrate should be sound, clean and free from grease, oils, dust, and all loosely adhering particles, in order to obtain a good adhesion and penetration.

APPLICATION INSTRUCTION**PRIMING**

Apply a layer with a short hair roller or a brush of the product diluted in the following proportion: 3 parts by volume of SikaFill® C and 1 part by volume of water, trying to get a good penetration into every crack.

APPLICATION METHOD / TOOLS

Stir SikaFill® C before using it until homogenization.

It could be applied with wooden roller (short hair), brush or airless.

FINISHING

Once the primer has dried (approx. 12 hours after being applied, in normal conditions of temperature and relative humidity), apply subsequent layers of SikaFill® until getting the desired layer thickness. Before the application of every layer, the previous one should be completely dry.

Depending on its uses, and if necessary, apply over the first and still fresh layer of SikaFill® C a glass fibre reinforcement, covering it with a second layer of SikaFill® C without dilution.

The glass fibre joining will be done by overlapping, with a width of between 3 and 5 cm.

GLASS FIBRE

Product: Sika Glass Fabric 145G

Weight: 145 g/m²

Size: 1 m x 50m/roll

CLEANING OF TOOLS

Clean all tools and application equipment with clean water immediately after use. Hardened / cured material can only be removed mechanically.

NOTES ON APPLICATION / LIMITATIONS	■ SikaFill C should not be used in those places where there is permanent contact with water, either by storing, or by pooling or condensation. ■ SikaFill C is a finishing coating. ■ For a higher mechanical resistances requirement, embed the glass fibre into the membrane. ■ In visitable zones or those with a frequent traffic, it is recommended to apply a finishing protective layer of Sikagard®-550 W Elastic. ■ Do not place sharp objects over this treatment. ■ It is not recommended for long-lasting immersions. ■ Do not apply it at temperatures lower than +5 °C. ■ It is necessary to apply a minimum of 2 layers over the priming. ■ For any explanation, please contact our Technical Services Department.
VALUE BASE	All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.
LOCAL RESTRICTIONS	Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.
HEALTH AND SAFETY INFORMATION	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.
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 written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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