

Product Data Sheet
Edition 07/06/2012
Identification no:
01 05 06 01 150 0 000002
Sikaflex®-EBT+

Sikaflex®-EBT+

1-part high grab polyurethane adhesive, sealant and gap filler

Product Description

Sikaflex®-EBT+ is a multi purpose, one part, elastic, polyurethane adhesive and sealant. It bonds to all common building materials, is permanently elastic and has excellent grab and gap filling properties making it ideal for use in a wide range of building and maintenance situations.

Uses

Sikaflex®-EBT+ is an all in one adhesive, sealant and filler, therefore suitable for many different uses including:-

- Bonding/fixing cabinets, shower trays, mirrors, ceramics.
- Bonding and sealing flashings, roof tiles, gutters, architrave, skirting, panelling, mouldings and acoustic tiles.
- Filling and sealing internal and external cracks and gaps around window and door frames.
- Forming gaskets in ducting and sealing between metal components.
- Fabrications and shop fitting.
- Floor joints.

Characteristics / Advantages

Sikaflex®-EBT+ is:

- 1-part, ready to use
- Flexible and elastic

Advantages:

- Bonds to concrete, brick, mortar, wood, metals, glass, resins and plastics.
- Excellent grab and non-slip.
- Fast curing rate.
- Good weather and water resistance.
- Permanently flexible and elastic.
- Non corrosive.

Product Data

Form

Appearance / Colours Beige, white, grey, brown, black

Packaging 300 ml cartridges (12 per box)

Storage

Storage Conditions / Shelf-Life 12 months from date of production if stored in undamaged original unopened containers, in dry conditions and protected from direct sunlight at temperatures between +10°C and +25°C.

Construction



Technical Data

| | | |
|----------------------------|---|-------------------|
| Chemical Base | 1-part polyurethane, moisture curing | |
| Density | ~ 1.65 kg/l (colour concrete grey) | (DIN 53 479-B) |
| Skinning Time | ~ 60 minutes (+23°C / 50% r.h.) | |
| Curing Rate | ~ 3 mm / 24 h (+23°C / 50% r.h.) | |
| Movement Capability | 12,5% | |
| Joint Dimensions | Min. width = 10 mm / max. width = 20 mm | |
| Sag Flow | good | (DIN EN ISO 7390) |
| Service Temperature | -40°C to +70°C | |

Mechanical / Physical Properties

| | | |
|----------------------------|--|---------------------|
| Tear Strength | ~ 8 N/mm (+23°C / 50% r.h.) | (DIN 53 515) |
| Shore A Hardness | ~ 45 after 28 days (+23°C / 50% r.h.) | (DIN 53 505) |
| E-Modulus | ~ 0.8 N/mm ² at 60% elongation (+23°C / 50% r.h.) | (DIN EN ISO 83 40) |
| Elongation at Break | ~ 500% (+23°C / 50% r.h.) | (DIN 53 504) |
| Elastic Recovery | ~ 60% (+23°C / 50% r.h.) | (DIN EN ISO 7389 B) |

Resistance

| | |
|----------------------------|---|
| Chemical Resistance | Resistant to water, seawater, diluted alkalis, cement grout and water dispersed detergents. Not resistant to alcohols, organic acids, concentrated alkalis and concentrated acids, chlorinated, aromatic (hydro-carbons) fuel. |
|----------------------------|---|

System Information

Application Details

Consumption

Approximate consumption

| | | | | | |
|-----------------------|---------|------------|---------|---------|---------|
| Joint width | 10 mm | 15 mm | 20 mm | 25 mm | 30 mm |
| Joint depth | 10 mm | 12 - 15 mm | 17 mm | 20 mm | 25 mm |
| Joint length / 300 ml | ~ 3.0 m | ~ 1.5 m | ~ 0.9 m | ~ 0.6 m | ~ 0.4 m |

Minimum gap width for perimeter joints around windows: 10 mm.

Bonding:

- In dabs:
1 cartridge for 100 x 3 cm dabs of Sikaflex®-EBT+
(Diameter =3cm; thickness = 0.4cm)
- In strips:
1 cartridge for 12 meters of Sikaflex®-EBT+ with 5 x 5 mm cross section.
On average 0.2 - 0.6 kg/m² depending on bonding area.

| | |
|---|---|
| Substrate Quality | Clean and dry, homogeneous, free from oils and grease, dust and loose or friable particles. Cement laitance must be removed |
| Substrate Preparation / Priming | <p><i>Non porous substrates:</i> E.g. metals, powder coatings etc. have to be cleaned with a fine abrasive pad and SikaCleaner-205 by using a clean towel / cloth. After a flash off time of at least 15 min, apply SikaPrimer-3 N by using a brush. Before sealing allow a flash off time of at least 30 min. (max. 8 hrs.). For PVC use SikaPrimer-215. Before sealing allow a flash off time of at least 30 min. (max. 8 hrs.).</p> <p><i>Porous substrates:</i> E. g concrete, aerated concrete and cementitious renders, mortars, brick, etc. have to be primed with SikaPrimer-3 N by using a brush. Before sealing allow a flash off time of at least 30 min. (max. 8 hrs.).</p> <p>Important note: Primers are only adhesion promoters. They neither substitute for the correct cleaning of the surface nor improve their strength significantly. Primers improve long term performance of a sealed joint.</p> |
| Application Conditions / Limitations | |
| Substrate Temperature | +5°C min. / +40°C max. |
| Ambient Temperature | +5°C min. / +40°C max. |
| Substrate Moisture Content | Dry |
| Application Instructions | |
| Application Method / Tools | <p>Sikaflex® -EBT+ is supplied ready to use.</p> <p>After suitable gap and substrate preparation, insert cartridge into sealant gun and firmly extrude Sikaflex®-EBT+ into gap making sure that it is in full contact with the side of the gap. Fill the gap, avoiding air entrapment. Sikaflex®-EBT+ must be tooled firmly against gap sides to ensure good adhesion. Masking tape must be used where sharp exact joint lines or exceptionally neat lines are required. Remove the tape whilst the sealant is still soft. Smooth gap with smoothing liquid for a perfect sealant surface.</p> <p><i>Bonding:</i> After substrate preparation apply Sikaflex®-EBT+ in strips or dabs on the bonding surface at intervals of a few centimeters. Use hand pressure to set the element to be bonded into position. If necessary, use adhesive tape, wedges, or props to hold the assembled elements together for the initial hours of curing. An incorrectly positioned element can be easily unfastened and repositioned in the first few minutes after application. Apply pressure again.</p> <p>Optimum bonding will be obtained after complete curing of Sikaflex®-EBT+, i.e. after 24 to 48 hours at +23°C for a thickness between 2 to 3 mm.</p> |
| Cleaning of Tools | Clean all tools and application equipment with Sika® Remover-208 / Thinner C immediately after use. Hardened / cured material can only be removed mechanically. |

Notes on Application / Limitations

Sikaflex® -EBT+ may not be over painted.

Colour deviations may occur due to exposure to chemicals, high temperatures, UV-radiation (especially with colour shade white). However a change in colour will not adversely influence the technical performance or the durability of the product.

Do not use Sikaflex® -EBT+ as a glass sealer, on natural decorative stone, on bituminous substrates, natural rubber, EPDM rubber or on building materials which might bleed oils, plasticisers or solvents which could attack the sealant.

Do not use Sikaflex® -EBT+ to seal swimming pools.

The freshly applied sealant has a smell similar to 'Marzipan' until it has fully cured (benzalehyde).

Do not mix with or expose uncured Sikaflex® -EBT+ to substances that may react with isocyanates, especially alcohols which are often components within e.g. thinners, solvents, cleaning agents and formwork releasing compounds. Such contact could interfere or prevent the cross linking curing reaction of the material.

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.



Sika Limited
 Watchmead
 Welwyn Garden City
 Hertfordshire
 AL7 1BQ
 United Kingdom
 Phone +44 1707 394444
 Telefax +44 1707 329129
www.sika.co.uk
 email: sales@uk.sika.com



Certificate No. EMS 4308



Certificate No. FM 12504