

# PRODUCT DATA SHEET

## SikaScreed®-10 BB

CEMENTITIOUS, POLYMER MODIFIED, BONDING BRIDGE FOR SIKASCREED® FLOOR SCREEDING SYSTEMS



### DESCRIPTION

SikaScreed®-10 BB is a 1- part cement based, polymer modified bonding bridge for normally loaded SikaScreed® floor screeding systems.

### USES

As bonding bridge for SikaScreed® HardTop product range.

### CHARACTERISTICS / ADVANTAGES

- Easy to mix and apply
- Good adhesion bond strength
- Cost efficient coverage
- Mineral based
- Non toxic

### SUSTAINABILITY

- VOC emission classification GEV-EMICODE EC1<sup>PLUS</sup>

### APPROVALS / CERTIFICATES

- EN 13501-1 - Fire classification of construction products and building elements.

### PRODUCT INFORMATION

<b>Composition</b>	Special cement and mineral aggregates with polymer additives
<b>Packaging</b>	25 kg bags
<b>Appearance / Colour</b>	Grey powder
<b>Shelf life</b>	6 months from date of production
<b>Storage conditions</b>	Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +25 °C. Always refer to packaging.
<b>Maximum Grain Size</b>	D <sub>max</sub> :~ 0,3 mm
<b>Bulk Density</b>	~ 1,45 kg/litre

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## TECHNICAL INFORMATION

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<b>Tensile Adhesion Strength</b>	~ 1,5 N/mm <sup>2</sup> or a failure in the substrate. Adhesion will generally be dependent on surface preparation.
<b>Reaction to Fire</b>	A1/A1fl (EN 13501-1)

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## SYSTEMS

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<b>System Structure</b>	SikaScreed®-10 BB is only to be used in combination with the following systems: <ul style="list-style-type: none"><li>▪ SikaScreed® HardTop-70</li><li>▪ SikaScreed® HardTop-70 DE</li><li>▪ SikaScreed® HardTop-80</li><li>▪ SikaScreed® P-24</li></ul> Refer to system data sheets.
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## APPLICATION INFORMATION

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<b>Mixing Ratio</b>	6,0 – 6,6 litres of water for 25 kg powder
<b>Fresh Mortar Density</b>	~ 2,0 kg/litre
<b>Consumption</b>	~ 1,8 kg/m <sup>2</sup> This figure is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc. For higher substrate roughness and/or stronger absorbency the consumption must be calculated using preliminary site trials.
<b>Layer Thickness</b>	~ 1,0 mm
<b>Product Temperature</b>	+10 °C min. / +25 °C max. (fresh mortar)
<b>Ambient Air Temperature</b>	+10 °C min. / +30 °C max.
<b>Substrate Temperature</b>	+10 °C min. / +30 °C max.
<b>Pot Life</b>	~ 30 minutes at +20 °C
<b>Waiting Time / Overcoating</b>	Maximum waiting time for wet-on-wet application on SikaScreed®-10 BB is ~15 minutes. Time is approximate and at +20 °C and > 50% r.h. thus will be affected by changing substrate and ambient conditions, as well as layer thickness and water content.

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## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

Concrete substrate must be structurally sound and of sufficient compressive strength (>25 N/mm<sup>2</sup>) with a minimum tensile strength of 1,5 N/mm<sup>2</sup>.

Substrates must be clean, free of all contaminants such as dirt, oil, grease and loose friable material. Cement laitance, coatings or other surface treatments must be completely removed.

Cementitious substrates must be prepared mechanically using suitable abrasive blast cleaning or planing / scarifying equipment to remove cement laitance, coatings or other surface treatments and achieve an open textured gripping surface profile suitable for the overlying SikaScreed®.

Concrete and cementitious substrates surface preparation: Minimum substrate roughness of 1,0 mm according to EN 1766 or > CSP 6 (International Concrete Repair Institute) or equivalent.

All dust, loose and friable material must be com-

pletely removed from all surfaces before application of the product, preferably by vacuum extraction equipment.

Before applying SikaScreed®-10 BB, substrate must be thoroughly pre-wetted to a saturated surface dry condition without any standing water remaining.

For critical adhesion applications it is recommended that site trials incorporating adhesion pull-off tests are carried out to confirm substrate / SikaScreed® tensile adhesion strengths and to verify values are acceptable for the application.

### MIXING

Pour the recommended amount of clean cold water into a suitable, clean mixing container.

While stirring, slowly add the SikaScreed®-10 BB powder to the water and then mix thoroughly using a low speed (~500 rpm) electric drill mixer fitted with a double spiral mixing paddle until the material is fully mixed and lump-free. Mix for 3,0 minutes after all powder has been added. Avoid entraining air into the

mix by over mixing.

## APPLICATION

### Levelling

Avoid excess thicknesses of the SikaScreed®-10 BB in local areas by prefilling as required, any surface voids with a SikaScreed® HardTop system.

### Bonding bridge

Pour mixed SikaScreed®-10 BB onto prepared substrate and apply evenly to the required thickness using mechanical rotary brushes or suitable stiff bristle brush or broom and work material well into the substrate. Ensure all areas of the substrate are fully covered. Apply SikaScreed® floor system on top of SikaScreed®-10 BB 'wet' on 'wet' and within 15 minutes of its application.

When applying SikaScreed® floor systems on top of SikaScreed®-10 BB bonding bridge. As a guide it is recommended to keep application area to a maximum of 2 m<sup>2</sup> in addition to recommended waiting / overcoating times.

## CLEANING OF EQUIPMENT

Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Hardened material can only be mechanically removed.

## FURTHER INFORMATION

### System Datasheets

- Sikafloor® HardTop CS-57 TrowelFinish
- Sikafloor® HardTop CS-57 StainProtect
- Sikafloor® HardTop CS-57 ColourSeal
- Sikafloor® HardTop CS-57 Rapid

### Application instructions

- Sika Method Statement 'SikaScreed® HardTop-systems'.

## IMPORTANT CONSIDERATIONS

- SikaScreed®-10 BB is to be used for floors with normal load requirements. For higher load requirements, SikaScreed®-20 EBB bonding bridge must be used.
- Do not mix more SikaScreed®-10 BB than can be used for each area and observe pot-life and waiting times.
- Any of the SikaScreed®-10 BB that has dried must be removed mechanically and replaced before application of the following SikaScreed® system.
- Construction joints, vertical connections, edges or connections to third-party components such as shafts, rails, profiles, etc., must be primed in all situations with SikaScreed®-20 EBB.
- Avoid excessive draughts, wind, rain and snow during application.
- SikaScreed®-10 BB is a special cement binder based mortar which is not compatible with standard Portland cements and therefore must never be mixed or blended with OPC cements or other binders.
- SikaScreed®-10 BB must not be used on exposed steel reinforcement.
- Observe storage, product, ambient and substrate temperatures. Mixing water must be kept cool.

- Existing joints in the substrate must always be brought through the screed and appropriately formed and sealed as required.
- Do not use on non-cement based substrates (e.g. anhydrite / gypsum screeds).
- Opened bags must be used immediately.
- During storage, product must be protected from moisture. Moisture can have a negative effect on the reactivity and shelf life.

## BASIS OF PRODUCT DATA

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.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) 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 Hellas ABEE**  
15 Protomagias Str.  
14568 Kryoneri  
Attica-Greece  
Tel.: +30 210 8160 600  
Fax: +30 210 8160 606  
www.sika.gr | sika@gr.sika.com



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