

# PRODUCT DATA SHEET

## SikaScreed®-10 BB

SPECIAL CEMENT BASED, POLYMER MODIFIED, BOND COAT FOR SIKASCREED® FLOOR SCREED-  
ING SYSTEMS

### PRODUCT DESCRIPTION

SikaScreed®-10 BB is a special cement based, polymer modified bond coat for SikaScreed® floor screeding systems including SikaScreed® HardTop-70, SikaScreed® HardTop-80 and SikaScreed® P-24.

### USES

SikaScreed®-10 BB is precisely matched in its characteristics and performance with the SikaScreed® systems, it is ideal for bonding these products onto existing and new absorbent mineral based concrete floor surfaces.

### CHARACTERISTICS / ADVANTAGES

- high, cost-efficient coverage as a pre-batched bond coat
- easy to apply and brush well into the substrate
- high strength bonding in tested system structures
- mineral based, non-toxic and ecologically safe

### ENVIRONMENTAL INFORMATION

- EMICODE EC1<sup>PLUS</sup>: sehr emissionsarm

### APPROVALS / STANDARDS

- Fire rating A1 according to EN 13501-1; MA 39 Vienna, Test report K-2013-0480

### PRODUCT INFORMATION

<b>Chemical Base</b>	special cement and mineral aggregates with polymer additives
<b>Packaging</b>	25 kg paper bags
<b>Appearance / Colour</b>	grey powder
<b>Shelf Life</b>	6 months from date of production
<b>Storage Conditions</b>	store properly in undamaged, unopened and original sealed packaging, in dry conditions at between +5°C and +25°C
<b>Density</b>	~ 2.0 kg/litre
<b>Maximum Grain Size</b>	D <sub>max.</sub> ~ 0.3 mm

### TECHNICAL INFORMATION

<b>Tensile Adhesion Strength</b>	~ 1.5 N/mm <sup>2</sup> (on suitable and prepared concrete surfaces)
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## SYSTEM INFORMATION

### System Structure

SikaScreed®-10 BB is a system bond coat based on special cements which must not **under any circumstances** be mixed with other binders (even in small quantities).

SikaScreed®-10 BB is only to be used in combination with the SikaScreed® HardTop-70, SikaScreed® HardTop-80 and the SikaScreed® P-24 based rapid cement screed systems.

## APPLICATION INFORMATION

### Consumption

The actual consumption of SikaScreed®-10 BB is dependent on the absorbency and roughness of the substrate.

### Yield

~ 1.8 kg/m<sup>2</sup> of applied bond coat

### Product Temperature

dry mortar (bagged product)	≥ +8°C ≤ +25°C
water (drinking quality!)	≥ +5°C ≤ +25°C
fresh mortar	≥ +8°C ≤ +30°C

### Ambient Air Temperature

air	≥ +5°C ≤ +30°C
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### Substrate Temperature

substrate	≥ +10°C ≤ +30°C
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### Pot Life

~ 30 minutes at +20°C (substrate, air, water, dry powder)

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be structurally sound and have adequate compressive strength of ≥ 25 N/mm<sup>2</sup>, together with minimum tensile bond strength of 1.5 N/mm<sup>2</sup>.

The primary requirements for ensuring a good bond of the SikaScreed® HardTop or SikaScreed® P-24 mortars are rapid and professional application of the SikaScreed®-10 BB bond coat onto a suitably clean and well prepared substrate (achieved mechanically by grinding, blastcleaning or as appropriate).

Absorbent mineral based substrates must be pre-dampened with sufficient water (warning: no standing water/puddles) to a saturated, surface dry condition that helps to prevent the subsequent bond coat drying out. The SikaScreed®-10 BB bond coat must be applied uniformly over the entire bond surface at a thickness of ca. 1 mm. Avoid excess thicknesses of the material (even in local areas, by suitably prefilling any surface voids with appropriate Sika mortars as required). Vertical cut edges and metal connections must be separated with a debonding separator strip, or primed with Sikafloor®-161 if suitable for bonding to the screed system. Please refer to the relevant product datasheets for the specific products.

Substrates contamination with wood or aggregates such as shale or mudstone must be completely removed.

Do not use on non-cement based substrates (e.g. anhydrite / gypsum screeds).

### MIXING

Add 6.0 – 6.6 litres of clean (drinking quality) water per bag and mix for at least 3 minutes with a suitable mixer.

### APPLICATION

Make sure that the freshly applied bond coat does not start to dry out. In parallel areas apply a maximum 2 m<sup>2</sup> at a time, onto the prepared and pre-dampened (SSD) substrate by brushing vigorously into the substrate, preferably by machine. Mechanical rotary brushes are recommended, but stiff bristle brushes are the minimum required.

The SikaScreed®-10 BB bond coat must always be mixed to a mortar before application.

Add 6.0 – 6.6 litres of clean (drinking quality) water per bag and mix for at least 3 minutes with a suitable mixer.

Always avoid excessive draughts, wind, rain and snow during application.

For an optimum bond with the substrate, work the SikaScreed®-10 BB into the concrete surface so that all of the uneven areas in the substrate are fully coated. The following Sika screeding mortar must be applied 'wet on wet' onto the bond coat. The freshly applied SikaScreed®-10 BB bond coat must be covered with fresh SikaScreed® HardTop-70, SikaScreed® HardTop-80, or SikaScreed® P-24 within 15 minutes of its application. Do not mix more bond coat than can be used for each area within this time, always make it up fresh.

## LIMITATIONS

- SikaScreed®-10 BB must not be used on exposed steel reinforcement (unless otherwise instructed in writing by the responsible engineer).
- If there is exposed reinforcement, a structural assessment must always be made by the responsible engineer before a Sika® system can be applied.
- For outdoor areas, we recommend that the contractors produce a joint design in advance, including the appropriate joint systems, by considering all of the relevant project parameters, in conjunction with the responsible engineer.
- The same applies to indoor areas  $\geq 100 \text{ m}^2$ . Cracks due to concrete surfaces being subject to shrinkage, creep or deformation or other substrate movement cannot be absorbed by SikaScreed® system build-ups.
- Existing joints in the substrate must always be brought through the screed and appropriately formed and sealed as required.
- SikaScreed® systems are not designed to be watertight and completely crack-free.

## 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.

## 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.

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