

SikaScreed®-10 BB

Special cement based, polymer modified, bond coat for SikaScreed floor screeding 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, SikaScreed® Binder 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
 - Fire rating Euroclass A1

Product Data

Form

Colours Grey powder

Packaging 25 kg paper bags

Storage

Storage Conditions / Shelf Life 6 months from date of production, if stored properly in undamaged, unopened and original sealed packaging, in dry conditions at between +5°C and +25°C.

Technical Data

Chemical Base Special cement and mineral aggregates with polymer additives

Density ca. 2.0 kg/l

Granulometry ca. 0.3 mm

Mechanical / Physical Properties

Tensile Bond Strength $\geq 1.5 \text{ N/mm}^2$ (on suitable and prepared concrete surfaces)



System Data

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, SikaScreed® Binder and the SikaScreed® P-24 based rapid cement screed systems.

Application Instructions

Coverage

ca. 1.8 kg/m² of applied bond coat

Substrate Preparation

The substrate must be structurally sound and have adequate compressive strength of $\geq 25 \text{ N/mm}^2$, together with minimum tensile bond strength of 1.5 N/mm^2 .

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).

Notes on application / Limitations

Application Temperature

Temperatures:

Dry mortar (bagged product)	$\geq +8^\circ\text{C}$, $\leq +25^\circ\text{C}$
Air	$\geq +5^\circ\text{C}$, $\leq +30^\circ\text{C}$
Substrate	$\geq +10^\circ\text{C}$, $\leq +30^\circ\text{C}$
Water (drinking quality!)	$\geq +5^\circ\text{C}$, $\leq +25^\circ\text{C}$
Fresh mortar	$\geq +8^\circ\text{C}$, $\leq +30^\circ\text{C}$

Application conditions

The actual consumption of SikaScreed®-10 BB is dependent on the absorbency and roughness of the substrate. Make sure that the freshly applied bond coat does not start to dry out. In parallel areas apply a maximum 2m^2 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, SikaScreed® Binder 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.

Application instructions

Pot Life

At +20°C (substrate, air, water, dry powder): ca. 30 minutes

Further information

- 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

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.

Health and Safety Information

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.

Important 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

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