BUILDING TRUST

PRODUCT DATA SHEET

Sika® Ucrete® BC 9

(formerly Ucrete® BC 9)

Heavy-duty, flow-applied basecoat for 9 mm Sika® Ucrete® flooring systems

DESCRIPTION

Sika® Ucrete® BC 9 is a fast-curing, flow-applied mortar. It provides a broadcasted base coat for 9 mm Sika® Ucrete® flooring systems.

USES

Sika® Ucrete® BC 9 is used as a basecoat under Sika® Ucrete® DP and Sika® Ucrete® CS flooring systems
Please note:
- The Product may only be used by experienced professionals.

CHARACTERISTICS / ADVANTAGES

- Expert installation by fully trained and licensed applicators
- Suitable for application on to 7-day-old concrete and 3-day-old polymer screed
- Can be accelerated with Sika® Ucrete® Accelerator for fast installation within a 12-hour window
- Non-tainting from the end of mixing

APPROVALS / STANDARDS

- Halal Certification Europe (HCE), Sika® Ucrete®, WHFC, Certificate No. 21453-2/1/1/Y1
- Food and Beverage Facilities Suitability, Sika® Ucrete®, HACCP, Test Report No. I-PE-769-SA-2-RG-06b
- Indoor Air Comfort Gold EN 16516, Sika® Ucrete®, eurofins, Certificate No. IACG-321-01-01-2023

PRODUCT INFORMATION

Chemical Base	Water-based polyurethane cement hybrid	
Packaging	Part 1	2.52 kg/pail
	Part 2	2.86 kg/pail
	Part 3	21 kg/bag
	Part 4	0.5 kg/bag
	Part 1+2+3+4	26.88 kg/set
Shelf Life	Always refer to the best-before date of the individual packaging.	
Storage Conditions	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight. Always refer to the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.	

TECHNICAL INFORMATION

Tensile Adhesion Strength	> 2.0 N/mm² (concrete failure)	(EN 1542)
Chemical Resistance	Laboratory-defined resistance to many individual chemicals. Before proceeding, contact Sika Technical Service for specific information.	

APPLICATION INFORMATION

Consumption	16-18 kg/m²	
Layer Thickness	9.0 mm	
Product Temperature	Maximum	+25 °C
	Minimum	+15 °C
Ambient Air Temperature	Maximum	+30 °C
	Minimum	+8 °C
Dew Point	Beware of condensation. The substrate and uncured applied product must be at least +3 °C above the dew point to reduce the risk of condensation or blooming on the surface of the applied product. Low temperatures and high humidity conditions increase the probability of blooming.	
Substrate Temperature	Maximum	+30 °C
	Minimum	+8 °C

Waiting Time / Overcoating

Substrate temperature	Waiting time
+8 °C	16–24 hours
+10 °C	4 hours (with Sika® Ucrete® Accelerator)

Note: Times are approximate and will be affected by changing ambient and substrate conditions.

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.

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 Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

NOTES ON INSTALLATION

- Small area tests should be conducted before large-scale construction to determine the influence of the substrate and environment on the material to confirm the final effect of the product.
- If the relative humidity drops below 50 %, this can increase the time to become tack free for all grades of Sika® Ucrete®, including primers. If the humidity is below 30 %, this can extend for several days.
- If primers or basecoats are overlaid before they are dry or tack free this can lead to blistering.
- Substrates will normally be concrete or polymer modified screeds, but some other types of substrates may be suitable, please consult your Sika sales representative or technician for details.
- If you are unsure of the surface type or quality of the substrate, please test some samples in small area first.
- The optimum temperature for the material and the environment is 15-25°C. If the actual substrate or ambient temperature is below 15°C, consult Sika's sales or technician for precautions before applying the material, and take warming measures such as air-conditioning if necessary, or defects may result.
- This product should not be applied to vertical or suspended surfaces. For application to vertical surfaces, refer to other suitable products such as Sika® Ucrete® RG.
- Due to thermal shock, the use of steam cleaning may cause the floor to delaminate. For floors requiring steam cleaning, please use other suitable products such as Sika® Ucrete® UD 200.
- To ensure color consistency, the same batch of products must be used in the same area.
- The Sika® Ucrete® range of products can be yellowed by the action of light. The yellowing has no significant effect on the other properties of the product and is purely an aesthetic appearance issue.

SUBSTRATE PREPARATION

IMPORTANT

- Reduced service life due to incorrect treatment of cracks.
- The incorrect assessment and treatment of cracks

may lead to a reduced service life and reflective cracking.
- For static cracks, ensure the width is suitable for overcoating with Sika® Ucrete® BC 9.
- For dynamic cracks, ensure the movement is within the movement capacity of Sika® Ucrete® BC 9.

TREATMENT OF JOINTS AND CRACKS

- Construction joints and existing static surface cracks in substrate require pre-treating before full layer application. Use Sikadur® or Sikafloor® resins.
- The Product can be applied on green or damp concrete with no standing water. Allow for at least 3 days for early concrete shrinkage to occur to prevent shrinkage cracks from appearing on the wearing surface.

SUBSTRATE QUALITY / PRE-TREATMENT

- Cementitious substrates must be structurally sound and of sufficient compressive strength (minimum 30N/mm²) with a minimum tensile strength of 1.5N/mm².
- Substrates must be clean, dry and free of contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.
- The concrete surface must be treated by mechanical means such as sandblasting, shotblasting and grinding to thoroughly remove cement floats, oil contamination and loose concrete of insufficient strength and to expose holes, while obtaining substrate with good surface strength and roughness (longitudinally open textured surface).
- Holes and cracks in the concrete surface must be repaired and filled with suitable Sika specialized systems such as Sika® Ucrete®,Sikafloor®, Sikadur® and Sikagard® first.
- If the substrate is uneven, it needs to be levelled with Sika's special levelling mortar to obtain a more even and aesthetic appearance.
- All dust, particles and rubbish on the surface of the substrate must be cleaned up by vacuuming etc. before application.
- Anchor grooves - All free edges of Sika® Ucrete® floors (including perimeters, trenches or drains) need to be provided with additional cutting gap to distribute the mechanical and thermal stresses.
- To achieve stress dispersion, formed or cut grooves can be placed in the concrete. The depth and width of the grooves should be twice the thickness of the Sika® Ucrete® floor system. Additional information on the edges can be found in the additional material supplied. If necessary, all free edges can be protected with mechanically installed metal strips, additionally thin edges must not be used as anchoring grooves.
- Expansion joints - Expansion joints are provided at the intersection of different materials on the base.
- Separate zones according to thermal stresses, vibrations and surrounding load-bearing columns, see additional details.

MIXING

- Temperature will affect the mixing effect; the optimal temperature of the material itself before use is 15°C-25°C; if the application is in low temperature in winter, it is recommended to store the material in an indoor air-conditioned room at 15°C-25°C for at least 24h before use.
- Prepare the mixing container in advance; start the mixer: First pour Part 4 (color paste) into Part 1 and stir for 15 seconds, then add Part 2 and stir for 20 seconds. Then slowly pour Part 3 (powder) in while stirring, the adding process takes about 15 seconds. Note that it should not be poured into the mixer quickly. After adding Part 3 and Part 4, stir further for more than 2 minutes to ensure that all powders and base materials are completely mixed.
- The mixing time should be consistent for each group of materials.During mixing, it is also necessary to use a straightsided trowel to scrape off the ingredients (Parts 1+2+3+4) that are stained on the sides and bottom of the container, and this should be done at least once to ensure complete mixing.
- It is only necessary to mix all the ingredients in the factory package.

APPLICATION

- Application must be undertaken by a fully trained and licensed Sika® Ucrete® applicator.
- Prior to application, confirm the water content, relative humidity and dew point of the substrate.
- Primer: Mix and apply Sika Ucrete PLC material on the floor and apply it with a trowel or squeegee to the required thickness.
- Check that the primer is completely sealed and that it is fully sealed and cured before applying the base coat.
- Basecoat: Mix and apply Sika® Ucrete® BC9 material to the floor; apply to the desired thickness trowel or squeegee according to the instructions.
- Broadcast: Fully broadcasing Sika® Ucrete® F20 or Sika® Ucrete® F25 on fresh applied Sika® Ucrete® BC9 immediately. Remove the exceed sands the next day.
- Topcpat: Apply Sika® Ucrete® TC or Sika® Ucrete® TCCS on top of the broadcast finished surface.
- **A large area must be adequately staffed; the entire construction process must be compact and the material must be quickly bridged between two shipments of material to ensure a wet joint, otherwise lap marks and color differences may occur.**

CLEANING OF TOOLS

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

MAINTENANCE

CLEANING

Regular cleaning and maintenance will enhance the life and appearance of any floor. Sika® Ucrete® DP system is cleaned using industry standard cleaning chemicals and equipment. The use of a food industry standard scrubber drier machine is recommended. Please consult your local cleaning chemical or equipment supplier.

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.

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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