BUILDING TRUST

PRODUCT DATA SHEET

Sika® Ucrete® RG

Hygienic, heavy-duty polyurethane render and coving mortar

PRODUCT DESCRIPTION

Sika® Ucrete® RG is a heavy-duty polyurethane render and coving mortar. It has very good resistance to aggressive chemicals, heavy abrasion and temperatures up to +120 °C.

USES

Sika® Ucrete® RG is used as a render and mortar for Sika® Ucrete® flooring systems.
Sika® Ucrete® RG is used within wet and dry process areas, including the following application areas:

- Food and beverage facilities
- Pharmaceutical facilities
- Chemical and processing facilities
- Manufacturing facilities and workshops
- Bunding areas
- Plinths
- Drainage channels
- Tank bases
- Sumps
- Effluent storage pits
- Coving and skirting

Please note:

- The Product may only be used by experienced professionals.

CHARACTERISTICS / ADVANTAGES

- Expert installation by fully trained and licensed applicators
- Resistant to bacterial or mould growth
- Suitable for application on to 7-day-old concrete and 3-day-old polymer screed
- Very good resistance to a wide range of chemicals
- Very good mechanical resistance
- Impermeable to liquids
- Non-tainting from the end of mixing
- Low VOC emissions
- Thermal expansion properties similar to concrete

ENVIRONMENTAL INFORMATION

- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Institut für Bauen und Umwelt e.V. (IBU)
- Specific Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by EPD International AB

APPROVALS / STANDARDS

- Food and Beverage Facilities Suitability, Sika® Ucrete®, HACCP, Test Report No. I-PE-769-SA-2-RG-07
- Halal Certification Europe (HCE), Sika® Ucrete®, WHFC, Certificate No. 21453-2/1/1/Y3
- Indoor Air Comfort Gold EN 16516, Sika® Ucrete®, eurofins, Certificate No. IACG-321-01-01-2024D
- CE marking and declaration of performance based on EN 13813:2002 Screed material and floor screeds — Screed material — Properties and requirements — Synthetic resin screed material
- Reaction to fire EN 13501-1, Sika® Ucrete® Trowel Systems, GHENT, Test Report No. CR 24-0478-01

PRODUCT INFORMATION

Chemical Base	Water-based polyurethane cement hybrid
Packaging	Refer to the current price list for available packaging variations.

Colour	Cured colour	Red, Orange, Yellow, Bright Yellow, Cream, Grey, Light Grey, Green, Light Green, Green/Brown, Light blue, Blue N.
	Note: Exposure to ultraviolet light may result in discolouration and colour variation. This is an aesthetic change and has no influence on the function and performance.	
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. Always refer to the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.	
Density	Mixed Product	2.06 kg/l (EN ISO 2811-1)

TECHNICAL INFORMATION

Abrasion Resistance	Cured 20 days at +23 °C	126 mg	(EN ISO 5470-1)
Compressive Strength	Cured 28 days at +23 °C	52 N/mm²	(EN 13892-2)
Flexural Strength	Cured 28 days at +23 °C	15 N/mm²	(EN 13892-2)
Tensile Strength	Cured for 28 days at +20 °C	7 MPa	(BS 6319-7)
Tensile adhesion strength	> 2.0 N/mm² (concrete failure)		(EN 1542)
Reaction to Fire	Class B_{fl}-s1		(EN 13501-1)
Chemical Resistance	Laboratory-defined resistance to many individual chemicals. Before proceeding, contact Sika Technical Service for specific information.		

Service Temperature

Thickness	Minimum	Maximum
6 mm	-25 °C	+80 °C
9 mm	-40 °C	+120 °C

Water permeability	Tested for 72 hours at 5 bar	Impermeable to water	(DIN 1048-5)

APPLICATION INFORMATION

Consumption

Layer	Product	Consumption
Primer	Sika® Ucrete® PRG	0.15–0.2 kg/m²
Wearing layer	Sika® Ucrete® RG	8–9 kg/m² for 4 mm 12–13 kg/m² for 6 mm 18–20 kg/m² for 9 mm

Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply the Product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.

Layer Thickness	~4–9 mm	
Product Temperature	Maximum	+30 °C
	Minimum	+10 °C

Ambient Air Temperature	Maximum	+30 °C
	Minimum	+5 °C
Substrate Temperature	Maximum	+30 °C
	Minimum	+5 °C

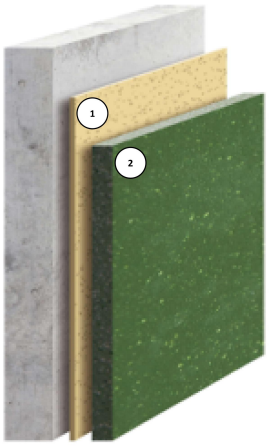
Curing Time

Substrate temperature	Return to traffic
+8 °C	16–24 hours

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

SYSTEM INFORMATION

System Structure



	Layer	Product
1.	Primer	Sika® Ucrete® PRG
2.	Wearing layer	Sika® Ucrete® RG

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.

FURTHER DOCUMENTS

Select from the following specification clauses as required:

- A 4 mm Sika® Ucrete® RG floor is fully resistant to high temperature spillage and discharge up to +70 °C. Suitable for freezer temperatures down to -15 °C.
- A 6 mm Sika® Ucrete® RG floor is fully resistant to liquid spillage and discharge up to +80 °C and can be lightly steam-cleaned. Suitable for freezer temperatures down to -25 °C.
- A 9 mm Sika® Ucrete® RG floor is fully resistant to high temperature spillage and discharge up to +120 °C and is fully steam-cleanable. Suitable for freezer temperatures down to -40 °C.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

Regulation (EC) No 1907/2006 (REACH) - Mandatory training

As from 24 August 2023 adequate training is required before industrial or professional use of this product. For more information and a link to the training visit www.sika.com/pu-training.

APPLICATION INSTRUCTIONS

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.
1. For static cracks, ensure the width is suitable for overcoating with Sika® Ucrete® RG.
2. For dynamic cracks, ensure the movement is within the movement capacity of Sika® Ucrete® RG.

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.
Cementitious substrates must be structurally sound and of sufficient compressive strength (minimum 30 N/mm^2) with a minimum tensile strength of 1.5 N/mm^2.
Substrates must be clean, dry and free of contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

APPLICATION

Application must be undertaken by a fully trained and licensed Sika® Ucrete® applicator.

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.

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