

PRODUCT DATA SHEET

Sika® Ucrete® RG

(formerly Ucrete® RG)

Hygienic, heavy-duty polyurethane render and coving mortar

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.

FEATURES

- Does not support 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

CERTIFICATES AND TEST REPORTS

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

PRODUCT INFORMATION

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

Colour	Cured colour	Red, Orange, Yellow, Cream, Grey, Light Grey, Green, Green-Brown, Blue.
--------	--------------	---

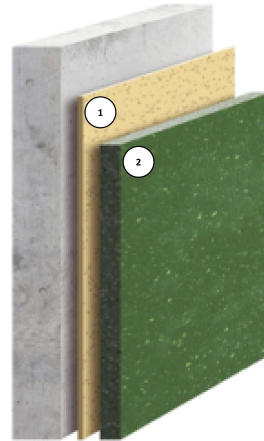
Density	~2.09 kg/l (mixed, at 20 °C)
---------	------------------------------

TECHNICAL INFORMATION

Compressive strength	Cured 28 days at +23 °C	47 - 52 N/mm ²	(EN 13892-2)
Flexural-strength	Cured 28 days at +23 °C	~15 N/mm ²	(EN 13892-2)
Tensile strength	Cured for 28 days at +20 °C	~7 MPa	(BS 6319-7)
Tensile adhesion strength	Concrete failure		(EN 1542)
Chemical resistance	Laboratory-defined resistance to many individual chemicals. Before proceeding, contact Sika Technical Service for specific information.		
Reaction to fire	Class B _{fl} -s1		(EN 13501-1)

SYSTEM INFORMATION

System structure	Sika® Ucrete® RG
------------------	------------------



Layer	Product
Primer	Sika® Ucrete® PRG
Wearing layer	Sika® Ucrete® RG

Dry film thickness	~6 mm
--------------------	-------

APPLICATION INFORMATION

Consumption	Layer	Product	Consumption
	Primer	Sika® Ucrete® PRG	0.15–0.2 kg/m ²
	Wearing layer	Sika® Ucrete® RG	8–9 kg/m ² for 4 mm 12–13 kg/m ² for 6 mm 18–20 kg/m ² for 9 mm
Material temperature	Maximum		+25°C
	Minimum		+15°C
Ambient air temperature	Maximum		+25°C
	Minimum		+15°C
Substrate temperature	Maximum		+25°C
	Minimum		+15°C
Curing time	Substrate temperature	Return to traffic	
	+8 °C		< 24 hours

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

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTATION

- **Method Statement:** Sika® Ucrete® RG
- **Substrate Quality & Preparation:** Please refer to Sika Method Statement: "EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS"

SPECIFICATION INFORMATION

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 and is fully steam-cleanable. 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.

IMPORTANT CONSIDERATIONS

- Do not apply to PCC (polymer modified cement mortars) that may expand due to moisture when sealed with an impervious resin.
- Always ensure good ventilation when using Sika® Ucrete® RG in a confined space, to prevent excessive ambient humidity.
- Freshly applied Sika® Ucrete® RG must be protected from damp, condensation and direct water contact for at least 24 hours.
- Protect the substrate during application from condensation from pipes or any overhead leaks.
- Do not apply to cracked or unsound substrates.
- Products of the Sika® Ucrete® product range are subject to discolouration when exposed to UV radiation. Extent depends on colour. There are no measurable losses of any properties when this occurs and it is a purely aesthetic matter.

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.

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.

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 System 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/mm²) with a minimum tensile adhesion strength of 1.5 N/mm².

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. Refer to Method Statement of particular system for further details.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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 Gulf B.S.C. (c)

Tel: +973 177 38188

Email: info@bh.sika.com

Sika Kuwait Cons. Mat. & Paints Co WLL

Tel: +965 22 282 296

Email: sika.kuwait@kw.sika.com

Web: gcc.sika.com

Sika UAE LLC

Sika MB Construction Chemicals LLC

Sika International Chemicals LLC

Tel: +971 4 439 8200

Email: info@ae.sika.com

Web: gcc.sika.com

Sika Saudi Arabia Limited

Sika Construction Chemicals for

Manufacturing LLC

Riyadh / Jeddah / Dammam / Rabigh

Tel: +966 12 692 7079

Email: info@sa.sika.com

Web: gcc.sika.com

Sika LLC - Oman

Master Builders Solutions LLC

(part of Sika)

Tel. +968 22 826 500

Email: info@om.sika.com

Web: gcc.sika.com



ISO 9001, 14001, 45001 – SGS
- Sika UAE LLC
- Sika International Chemicals LLC
- Sika Gulf B.S.C. (c)
- Sika MB Construction Chemicals for Manufacturing LLC
- Sika Construction Chemicals for Master Builders Solutions LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



Product Data Sheet

Sika® Ucrete® RG

July 2024, Version 02.01

02081400000002014

