

## SYSTEM DATA SHEET

# Sika® Ucrete® DP20 4 mm

Heavy-duty, 4 mm polyurethane floor system with a well defined profile

### DESCRIPTION

Sika® Ucrete® DP20 4 mm is a heavy-duty, polyurethane flooring system with a well defined profile for slip resistance. It provides very good resistance to aggressive chemicals, heavy impact and high temperatures.

### USES

Sika® Ucrete® DP20 4 mm may only be used by experienced professionals.

Sika® Ucrete® DP20 4 mm is used within wet and dry process areas including the following application areas:

- Food and beverage facilities
- Pharmaceutical facilities
- Chemical and processing facilities

### 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
- Resistant to bacterial or mould growth
- Very good mechanical resistance
- Impermeable to liquids
- Very good temperature resistance
- Very good resistance to staining from a specific range of chemicals and food industry products
- Non-tainting from the end of mixing
- Electrostatically conductive

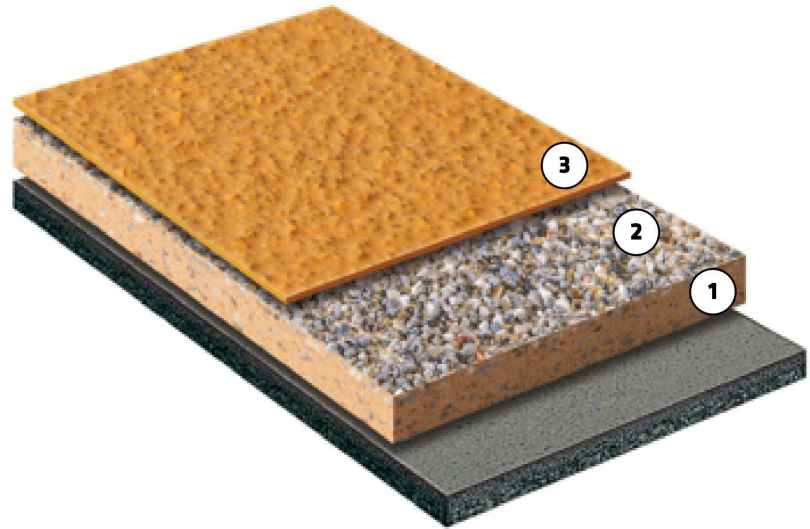
### APPROVALS / STANDARDS

- 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

# SYSTEM INFORMATION

System Structure

Sika® Ucrete® DP20 4 mm



Layer	Product
Primer(Optional)	Sika® Ucrete® PLC
1. Base layer	Sika® Ucrete® BC 4 or Sika® Ucrete® MF
2. Broadcast	Sika® Ucrete® F 20
3. Top coat	Sika® Ucrete® TC

Composition	Water-based polyurethane cement hybrid
Colour	Red, Orange, Yellow, Bright Yellow, Cream, Grey, Light Grey, Green, Light Green, Green/ Brown, Blue. Note: Sika® Ucrete® floor systems have been formulated to provide the very highest chemical and heat resistance. As a direct result, some yellowing of the installed floor will occur in areas of direct UV exposure. This is most apparent in lighter colours.
Nominal thickness	4 mm

## TECHNICAL INFORMATION

Compressive Strength	Cured 28 days at +23 °C	54 N/mm <sup>2</sup>	(EN 13892-2)
Tensile Strength in Flexure	Cured 28 days at +23 °C	14 N/mm <sup>2</sup>	(EN 13892-2)
Tensile Strength	Cured for 28 days at +20 °C	7 MPa	(BS 6319-7)
Tensile Adhesion Strength	> 2.0 N/mm <sup>2</sup> (concrete failure)		(EN 1542)
Coefficient of Thermal Expansion	4 × 10 <sup>-5</sup> °C <sup>-1</sup>		(ASTM C531)
Reaction to Fire	Class B <sub>fl</sub> -s1		(EN 13501-1)

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BUILDING TRUST



Skid / Slip Resistance	PTV, 4S rubber	45–55 wet conditions	(EN 13036-4)
	Class	R 12	(DIN 51130)

## APPLICATION INFORMATION

Consumption	Layer	Product	Consumption
	Primer	Sika® Ucrete® PLC	2 kg/m <sup>2</sup>
	Base layer	Sika® Ucrete® BC 4 or Sika® Ucrete® MF	6–8 kg/m <sup>2</sup>
	Broadcast	Sika® Ucrete® F 20	5 kg/m <sup>2</sup>
	Top coat	Sika® Ucrete® TC	0.7–1.2 kg/m <sup>2</sup>

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.

Ambient Air Temperature	Maximum	+30 °C
	Minimum	+12 °C

Dew Point	Refer to the individual Product Data Sheet.
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Substrate Temperature	Maximum	+30 °C
	Minimum	+12 °C

Substrate Moisture Content	Refer to the individual Product Data Sheet. Note: Epoxy primers are not suitable for application onto a high substrate moisture content.
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Applied Product Ready for Use	The floor can be returned to service after 24 hours. Note: Times are approximate and will be affected by changing ambient and substrate conditions.
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## 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.

## FURTHER DOCUMENTS

Select from the following specification clauses as required:

- A Sika® Ucrete® DP20 4 mm flooring system is fully resistant to high temperature spillage and discharge up to +70 °C. Suitable for freezer temperatures down to -15 °C.

## 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

- Small area test 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 Sikafloor® 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.

## NOTES ON INSTALLATION

### EQUIPMENT

Sika® Ucrete® must be thoroughly mixed using a low speed electric stirrer (400 -600rpm) or other suitable equipment.

### SUBSTRATE QUALITY / PRE-TREATMENT

- Cementitious substrates must be structurally sound and of sufficient compressive strength (minimum 30N/mm<sup>2</sup>) with a minimum tensile strength of 1.5N/mm<sup>2</sup>.
- 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 specialised 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 in order 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

Refer to the related product data sheet.

## APPLICATION

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

## CLEANING OF TOOLS

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

## CLEANING

Regular cleaning and maintenance will enhance the life and appearance of any floor. Sika® Ucrete® DP 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.

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## 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.

### SIKA HONGKONG LTD.

Rm.1507-12, Blk A, New Trade Plaza,  
6 On Ping Street, Shatin, N.T., H.K.  
Phone: +852 26868108  
Fax: +852 26453671  
Mail: marketing@hk.sika.com  
Website: www.sika.com.hk



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