BUILDING TRUST

PRODUCT DATA SHEET

Sika® Ucrete® CR 460

Two-part, polyurethane, chemical and traffic resistant joint filler

PRODUCT DESCRIPTION

Sika® Ucrete® CR 460 is a two-part polyurethane joint filler. It is pourable and self-levelling. The Product is used together with Sika® Ucrete® P 460, a two-part clear polyurethane primer.

USES

Sika® Ucrete® CR 460 is used for sealing induced joints in resin floors and around stainless steel channels and gullies. It is used in environments with heavy traffic and high levels of heat and chemical exposure.

Sika® Ucrete® CR 460 is used for:

- Industrial floors and warehouses
- Food industry
- Civil engineering structures
- Metal industry

CHARACTERISTICS / ADVANTAGES

- Long working life
- Very good resistance to specific chemicals
- Very good mechanical and wear resistance
- Hygienic
- Non-tainting after curing
- Easy application

PRODUCT INFORMATION

Chemical Base	Polyurethane	
Packaging	3.0 kg	
Shelf Life	12 months from date of production	
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	1.6 kg/L	(ISO 1183-1)

TECHNICAL INFORMATION

Shore A Hardness	Cured 28 days at +20 °C	~80	(DIN 53505)
Tensile Strength	Cured 28 days at +20 °C	1.6 to 2.0 N/mm²	(EN ISO 527-3)

Chemical Resistance	Sika® Ucrete® CR 460 has very good resistance to: ▪ Dilute mineral acids: chromic, hydrochloric, nitric, phosphoric and sulphuric ▪ Dilute alkalis ▪ Most dilute organic acids ▪ Fats, oils and sugars ▪ Mineral oils, most hydrocarbons, fuels, alcohols and salts ▪ Cleaning agents and detergents Sika® Ucrete® CR 460 has limited resistance to: ▪ Concentrated mineral ▪ Organic acids ▪ Alkalis Sika® Ucrete® CR 460 is not resistant to: ▪ Aggressive organic solvents such as xylene and acetone Contact Sika® Technical Services for additional information.

Elongation at break	Cured 28 days at +20 °C	20 to 23 %	(EN ISO 527-3)

APPLICATION INFORMATION

Consumption

Joint Width	Joint Depth	Coverage in g/linear meter	Coverage in linear meter/unit
7 mm	5 mm	55 g/lm	55 lm/unit
10 mm	6 mm	100 g/lm	30 lm/unit
15 mm	10 mm	235 g/lm	13 lm/unit
20 mm	10 mm	320 g/lm	9 lm/unit
30 mm	15 mm	720 g/lm	4 lm/unit

Backing Material	Use closed cell, polyethylene foam backing rod.		
Sag Flow	20 mm profile tested at +23 °C	< 2 mm	(EN ISO 7390)

Product Temperature	Maximum	+40 °C
	Minimum	+5 °C
Ambient Air Temperature	Maximum	+40 °C
	Minimum	+5 °C
Substrate Temperature	Maximum	+40 °C
	Minimum	+5 °C

Dew Point	The substrate temperature must be at least +3 °C above dew point to reduce the risk of condensation decreasing adhesion.
Pot Life	100 to 120 minutes

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.

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

Poor adhesion due to inadequate surface preparation
Note: Primers are adhesion promoters. Primers cannot replace proper surface preparation and surface cleaning. Do not use primers to improve poorly prepared or poorly cleaned joint surfaces.

IMPORTANT
Poor adhesion due to incorrect priming procedure
Incorrectly defined or uncontrolled priming procedures may lead to a variation in Product performance.
- Test adhesion on project-specific substrates and agree on procedures with all parties before full project application. For more information, contact Sika® Technical Services.

The substrate must be sound, clean, dry, and free of contaminants such as dirt, oil, grease, cement laitance, sealant residues, and poorly bonded coatings, which could affect the primer and sealant's adhesion.
The substrate must be sufficiently strong to withstand the stress the sealant induces during movement.
1. To remove all weak substrate material, use techniques such as wire brushing, grinding, grit blasting, or other suitable mechanical methods.
2. Repair all damaged joint edges with suitable Sika® repair products.
3. Remove dust and loose and friable material from all surfaces before applying the sealant.

Use the following priming or pre-treatment procedures to ensure optimum adhesion and joint durability, or if the Product is used for high-performance applications such as joints on multi-storey buildings, highly stressed joints, or joints exposed to extreme weather.

MIXING

1. Using a slow speed stirrer, mix the content of the Part A pail for 30 seconds to disperse any separated material.
2. Add the content of the Part B.
3. IMPORTANT: Do not mix excessively to minimise air entrainment. Mix the two parts for a further 1 to 2 minutes.
4. Ensure that no undispersed Part A is left on the side of the pail.

APPLICATION

IMPORTANT
Strictly follow installation procedures
Strictly follow installation procedures as defined in Method Statements, application manuals and working instructions which must always be adjusted to the actual site conditions.
1. Apply the primer to the substrate using a brush. A thin layer (± 100 µm) should be applied to the joint edges.
2. While the Sika® Ucrete® P 460 is still tacky (30 minutes to 2 hours, depending on the temperature), pour in the mixed Product to fill the joint flush to the surface. The Product can be applied on angled surfaces up to 2 % without slumping.
3. When the primer has become tack-free, apply a second coat before pouring the Product to ensure proper bonding.
4. Use a spatula to smooth the surface and remove trapped air.

CLEANING OF TOOLS

Clean all tools and application equipment immediately after use with Sika® Wonder Wipes or equivalent. Once cured, hardened material can only be removed mechanically.

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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