

PRODUCT DATA SHEET

Sika® Icosit® KC 340/65

2-part polyurethane grout for continuous embedded tracks with heavy axle loads

DESCRIPTION

Sika® Icosit® KC 340/65 is a flexible 2-part polyurethane polymer resin grout designed as a vibration absorbing, load-bearing, flexible grout for the continuous fixing of embedded grooved rails. Particularly suitable for embedded (floating) rail designs.

USES

Sika® Icosit® KC 340/65 may only be used by experienced professionals.

As a noise and vibration reducing grout for continuous embedded tram or light rail track sections and road crossing applications.

FEATURES

- Heavy axle loads and standard deflection
- Noise & vibration suppression
- Flexible, elastic (shore A 70)
- More uniform load distribution into substructure
- Application manually and by machine
- Watertight undersealing
- Damping, compressible
- Good electrical insulation against stray currents
- Excellent adhesion on various substrates
- Levels out tolerances
- Suitable as a powerful, shear-resistant adhesive
- Absorbs dynamic stresses and prolongs the life of concrete substructure
- Insensitive to moisture
- Long durability, less maintenance

PRODUCT INFORMATION

Composition	2-part polyurethane		
Packaging		Manual application	Machine application
	Part A	8,7 kg container	160 kg drum
	Part B	1,3 kg container	24 kg container
	A + B	10 kg	184 kg
Colour	Grey		
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 +10 °C and +25 °C. Always refer to packaging.		
Density	Part A	~0,9 kg/l	(ISO 2811-1)
	Part B	~1,2 kg/l	(ISO 2811-1)
	A + B	~0,9 kg/l	(ISO 1183-1)

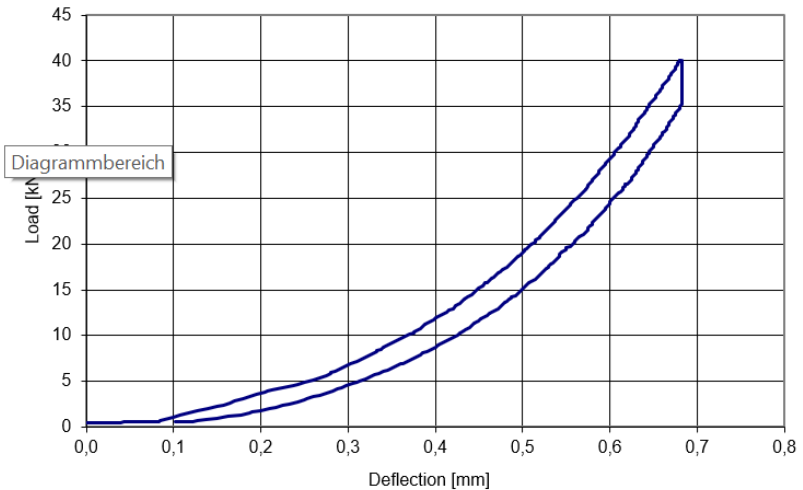
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TECHNICAL INFORMATION

Shore A hardness	70 ± 5 (after 28 days) Shore hardness assists with material identification and assessing the curing progress on site.	(ISO 868)
Tensile strength	~3,0 N/mm ²	(ISO 527)
Tensile strain at break	~165 %	(ISO 527)
Chemical resistance	<p>Long-term resistant against:</p> <ul style="list-style-type: none"> ▪ Water ▪ Most detergents ▪ Sea water, alkaline water <p>Short-term resistant against:</p> <ul style="list-style-type: none"> ▪ Mineral oils, diesel fuel, vegetable and animal fat <p>Short-term or no resistance against:</p> <ul style="list-style-type: none"> ▪ Organic solvents (ester, ketone, aromates), alcohol and thinners ▪ Concentrated lyes and acids <p>Contact Sika Technical Services for specific information.</p>	
Electrical resistivity	~5,48 × 10 ⁹ Ω·m	(DIN VDE 0100-610 and DIN IEC 93)
Service temperature	-40 °C min. / +80 °C max. short term up to +150 °C	
Compressive stiffness	<p>Load-Deflection Diagram</p>  <p>Static stiffness determined according to DIN 45673-1. Test specimen dimensions 1000 × 180 × 25 mm. Spring index $k_{stat} = 63 \text{ kN/mm}$ (±10 %), determined as per the secant method between 4 kN and 32 kN.</p>	

APPLICATION INFORMATION

Mixing ratio	Part A : Part B = 100 : 15 (parts by weight)
Consumption	~0,9 kg per litre of volume to be sealed
Layer thickness	15 mm min 60 mm max.
Material temperature	Condition product parts before application preferably at ~+15 °C to assist

	with flow and curing speed.			
Ambient air temperature	+5 °C min. / +35 °C max.			
Relative air humidity	90 % max.			
Substrate temperature	+5 °C min. / +35 °C max			
Substrate moisture content	Dry to matt damp			
Pot Life	~8 minutes at +20 °C After this time, the mixture becomes unusable. Higher temperatures will shorten pot life.			
Curing time	Tack-free	~2 hours at +20 °C		
	Trafficable	~12 hours at +20 °C		
Curing rate	Shore A	Curing Temperature		
	Curing Time	0 °C	5 °C	23 °C
				35 °C
	1 h	-	-	~30
	2 h	-	~20	~40
	4 h	~20	~30	~45
	7 h	~35	~40	~50
	1 d	~55	~55	~60
	3 d	~60	~60	~65
	7 d	~65	~65	~65
	14 d	~70	~65	~65
Waiting time to overcoating		Minimum	Maximum	
	Icosit® KC 330 Primer	1 hour	3 days	
	SikaCor®-299 Airless	24 hours	7 days	

SYSTEM INFORMATION

System structure	<ul style="list-style-type: none"> ▪ SikaCor®-299 Airless (Steel deck / rail coating) ▪ Icosit® KC 330 Primer ▪ Sika® Icosit® KC 340/65
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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.

IMPORTANT CONSIDERATIONS

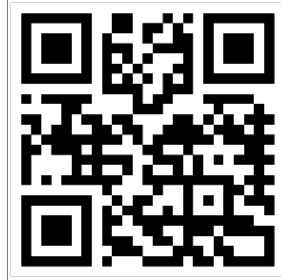
- To achieve the optimum flow performance, condition the material to a temperature of +15 °C before application.
- Undersealing layer thickness must be a minimum 15 mm and maximum 60 mm.
- To achieve maximum adhesion on concrete, loose particles and cement laitance must be removed mechanically, e.g. by blast cleaning or scabbling.
- Use of appropriate Sika Primers will improve adhesion and durability.
- Do not add any solvents to product.
- Standing water must be removed (e.g. by vacuum extraction or oil free compressed air) before pouring Sika® Icosit® KC 340/65.

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.



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APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Substrate must be sound, free from oil, grease, loose and friable particles.

Slightly damp substrates are acceptable. Standing water must be removed (e.g. by vacuum extraction or oil free compressed air) before pouring Sika® Icosit® KC 340/65.

SUBSTRATE PREPARATION

To improve adhesion, apply Icosit® KC 330 Primer as a primer on absorbent substrates (concrete).

For additional corrosion protection, use SikaCor®-299 Airless and Icosit® KC 330 Primer in combination to coat the steel surfaces.

Immediately blind (broadcast) the freshly applied coated surfaces with quartz sand (0,4–0,7 mm granulometry).

Always comply with the waiting time limits between application of SikaCor®-299 Airless, Icosit® KC 330 Primer and pouring of Sika® Icosit® KC 340/65.

Refer to the individual Product Data Sheets for more information.

MIXING

Sika® Icosit® KC 340/65 is supplied in pre-weighed composite units consisting of parts A + B. Part A must be stirred thoroughly before being mixed with part B.

10 kg units

The following mixing instructions must be carried out:

- Use an electric or pneumatic mixer with basket type stirrer (diameter 120–140 mm, speed ~600–800 rpm.)
- Mixing time ~60–80 seconds
- Ensure material is mixed from the container walls and the base by the stirrer during mixing

184 kg units

Recommended mixer for stirring Part-A in 160 kg drums:

Geppert Rührtechnik GmbH gear stirrer GRS 300/1,5 equipped with three blades (diameter 300 mm). Gear stirrer must be mounted on a drum lid which replaces the original lid during stirring.

Stirring time ~5 minutes.

APPLICATION METHOD / TOOLS

Reference must be made to further documentation where applicable, such as relevant method statement, application manual and installation or working instructions.

Material is suitable for application with special 2-part casting machines. Correct mix ratio must be carried out. Part A must be stirred at regular intervals. Reference must be made to equipment supplier's instruction manual.

CLEANING OF EQUIPMENT

Mixing and application tools must be cleaned at regular intervals and immediately after use with Sika® Reinigungsmittel-5. Hardened material can only be removed mechanically

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 the 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.

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