

PRODUCT DATA SHEET

Sika® Icosit® KC 330/10

2-part polyurethane grout for heavy wheel load rail fixing

DESCRIPTION

Sika® Icosit® KC 330/10 is a flexible 2-part polyurethane polymer resin grout. It is designed as a vibration absorbing, load-bearing, flexible grout for discrete or continuous trackwork baseplates where particularly high wheel loads are involved.

USES

Sika® Icosit® KC 330/10 may only be used by experienced professionals.

As a noise and vibration reducing grout under discrete baseplates or continuous embedded rails for high wheel loads e.g. for heavy cranes, container gantry cranes, working pits and other similar applications. Also suitable as flexible levelling layer for fixing heavy machines in industry to reduce vibration transmission.

FEATURES

- Heavy axle load main line vehicles and loading cranes
- Noise & vibration suppression
- Flexible, elastic (shore D 75)
- Reduces erosion of concrete under baseplate
- More uniform load distribution into substructure
- Watertight undersealing
- Damping, compressible
- Good electrical insulation against stray currents
- No stress peaks on anchor bolts
- Excellent adhesion on various substrates
- Levels out tolerances
- Powerful, shear-resistant adhesive
- Absorbs dynamic stresses and prolongs the life of concrete substructure
- Long durability, less maintenance

PRODUCT INFORMATION

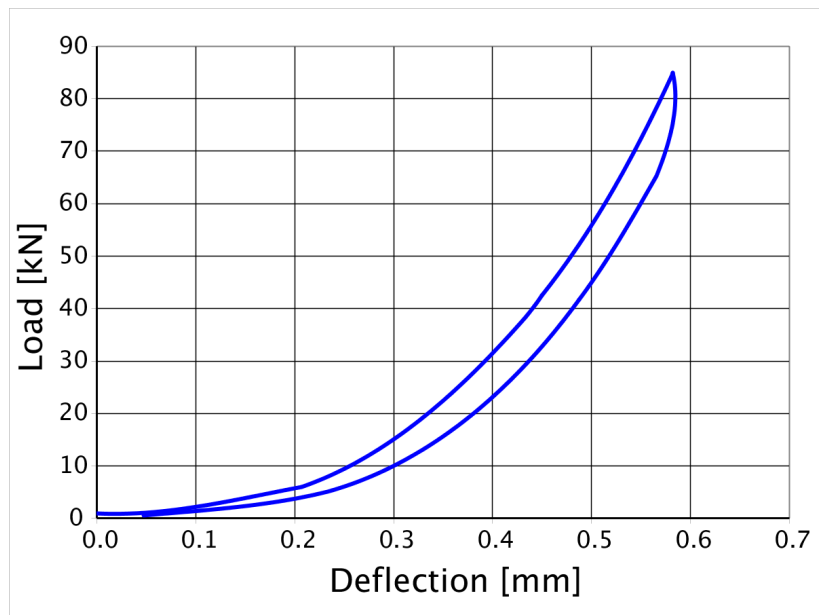
Composition	2-part polyurethane		
Packaging		Manual application	Machine application
	Part A	6,6 kg container	160 kg drum
	Part B	3,4 kg container	2 x 41,6 kg container
	A + B	10 kg	243,2 kg
Colour	Black		
Shelf life	12 months from date of production		
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10 °C and +25 °C. Always refer to packaging.		
Density	Part A	~1,1 kg/l	(ISO 2811-1)
	Part B	~1,2 kg/l	(ISO 2811-1)
	A + B	~1,1 kg/l	(ISO 1183-1)

TECHNICAL INFORMATION

Shore D Hardness	75 ± 5 (after 28 days) Shore hardness assists with material identification and assessing the curing progress on site.	(ISO 868)
Tensile strength	~25 N/mm ²	(ISO 527)
Tensile strain at break	~30 %	(ISO 527)
Chemical resistance	Long-term resistant against: <ul style="list-style-type: none">▪ Water▪ Most detergents▪ Sea water Temporary resistant against: <ul style="list-style-type: none">▪ Mineral oils, diesel fuel Short-term or no resistance against: <ul style="list-style-type: none">▪ Organic solvents (ester, ketone, aromates) and alcohol▪ Concentrated lyes and acids <p>Contact Sika Technical Services for specific information.</p>	
Service temperature	-40 °C min. / +80 °C max. short term up to 150 °C	

Compressive stiffness

Load-Deflection Diagram



Static stiffness determined according to DIN 45673-1.
Dimensions of test specimen 360 × 160 × 25 mm;
Spring index $k_{\text{stat}} = 222 \text{ kN/mm}$ ($\pm 10 \%$), determined as per the secant method between 17 kN and 68 kN.

APPLICATION INFORMATION

Mixing ratio	Part A : Part B = 100 : 52 (parts by weight)
Consumption	~1,1 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	70 % max.			
Substrate temperature	+5 °C min. / +35 °C max.			
Substrate moisture content	Dry			
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 D	Curing Temperature		
	Curing Time	5 °C	23 °C	35 °C
	1 h	-	~50	~55
	2 h	~35	~55	~60
	3 h	~45	~60	~65
	4 h	-	~65	~65
	5 h	~55	~65	~70
	6 h	~55	~70	~70
	7 h	~60	-	-
	1 d	~70	~75	~75
	4 d	~75	~75	~75
	7 d	~75	~75	~75
	14 d	~75	~75	~75
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 / baseplate / rail coating)▪ Icosit® KC 330 Primer▪ Sika® Icosit® KC 330/10
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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

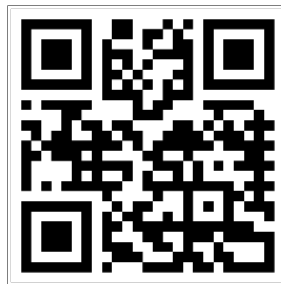
- Material is moisture-sensitive. Do not warm up in water.
- Apply only to absolutely dry surfaces
- To achieve the optimum flow performance, condition the material to a temperature of +15 °C before application.
- To achieve maximum adhesion on concrete, loose particles and cement laitance must be removed 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.

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.



PRODUCT DATA SHEET

Sika® Icosit® KC 330/10
August 2025, Version 08.01
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APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

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

Apply Sika® Icosit® KC 330/10 only on dry contact surfaces.

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 330/10. Refer to the individual Product Data Sheets for more information.

MIXING

Sika® Icosit® KC 330/10 is supplied in pre-weighed composite units consisting of parts A + B. Part A must be stirred thoroughly before being mixed with part B.

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

APPLICATION METHOD / TOOLS

Application technique for direct (sleeperless) fixation of trackwork (discrete fixation):

1. Adjust rail to correct line and level.
2. Drill holes for anchor bolts.
3. Apply appropriate Icosit® KC 330 Primer.
4. Fix baseplates to rail foot.
5. Fill bolt holes with pourable epoxy grout, consisting of 1 part by weight Icosit® KC 220/60 TX and 1 part by weight dry quartz sand (0,4–0,7 mm granulometry).
6. Place pre-assembled anchor bolts into grout filled bolt holes.
7. Fit shuttering frame (formwork) treated with release agent around the baseplate by leaving a 0,5 cm gap between sides of baseplate and formwork. Provide a gap on one side of the baseplate and formwork of at least 1,5 cm wide for pouring. Seal formwork to prevent leakage of grout.
8. Mix Sika® Icosit® KC 330/10 in accordance with mixing instructions.
9. Immediately after mixing, pour Sika® Icosit® KC 330/10 between the baseplate and substrate using only the gap provided for pouring. Ensure a continuous grout flow from one side to the other to avoid trapping, continue to pour until grout appears at the gap on the opposite side.
10. After a waiting time of ~4 hours, the formwork can be removed.

CLEANING OF EQUIPMENT

Mixing and application tools must be cleaned at regular intervals and immediately after use with Sika® Reinigungsmittel-5. Cured 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.

PRODUCT DATA SHEET

Sika® Icosit® KC 330/10

August 2025, Version 08.01

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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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