Icosit[®] KC 340/35

2-pack Polyurethane grout for rail fixing (continuous undersealing)

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description	Icosit KC 340/35 is a solvent-free 2-component elastic polyurethane grout.
Uses	Icosit KC 340/35 is designed as a flexible levelling and bedding material for elastic fixing of rails, in particular for embedded grooved rails (floating rail).
Characteristics / advantages	Reduces vibration
	Insulates against stray currents
	Levels out tolerances
	Suitable as shear-resistant adhesive for rail fixing
	Insensitive to moisture
	Elastic (Shore A 35) - compressible
	Long life expectance

Product Data

Colour shades	Light grey		
Packaging	component A:	8.9 kg pail	160 kg drum
	component B:	1.1 kg tin	19,2 kg can
	A + B composite unit	10 kg	179,2 kg
Conditions of storage / shelf-life	12 months from date of manufacture in cool and dry storage in unopened original containers, protected from direct sun radiation, at temperatures between $+10^{\circ}$ C and $+25^{\circ}$ C. Protect from frost.		
Chemical base	2-component pourable polyurethane grout		
Density			
	Component A	~ 0.90 kg/litre	(ISO 2811-1)
	component B	~ 1.23 kg/litre	(ISO 2811-1)
	A + B	~ 0.95 kg/litre	(ISO 1183-1)
Viscosity			·
	component A	~ 3.0 Pa s	With Z 3 DIN, 20℃
	component B	~ 0.14 Pa s	With Z 3 DIN, 20℃

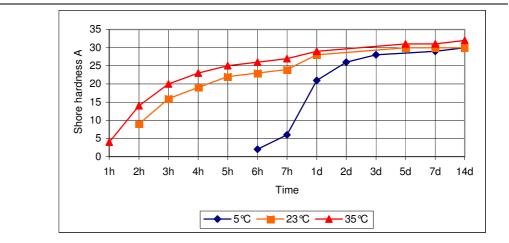
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Layer thickness	~ 15 mm min./ 50 mm max.	
Temperature resistance	From -40 °C to +80 °C (temporarily up to + 150 °C)	
Tensile strength	0.9 N/mm ²	(ISO 527
Shore A hardness	35 ± 5 (after 28 days)	(ISO 868
Elongation at break	~ 180%	(ISO 527
Specific electrical resistance	\sim 1,5 x 10^8 Ω m $$ (DIN VDE 0100-610 and DIN IEC 93)	
Spring diagram		
DIN 45673	45 40 35 30 25 25 20 15 10 5 20 15 10 5 0 0 0,5 1 1,5 deflection [mm] Static stiffness determined analogous to DIN 45673-1. Test spectrum.	2 cimen dimensions
	Bedding figure c = 25 kN/mm, determined as per secant method kN. Shore-hardness serves for material identification and control of site.	
Chemical resistance	Site. Long-term resistant against: - water - conventional detergent solutions - sea water - alkaline water Short-term resistant against: - mineral oil, Diesel oil, vegetable and animal fat not or only short-term resistant against: - organic solvents (ester, ketone , aromates) and alcohol - solvents and thinners - strong lyes and acids	
System Information		
Application details		
Consumption	0.95 kg of Icosit KC 340/35 per litre of volume to be filled up.	

Substrate preparation	Icosit KC 330 Primer:
	To improve adhesion, absorbent substrates (concrete) should be primed. Waiting time between application of Icosit KC 330 Primer and pouring of Icosit KC 340/35 min. 1 hour and max. 3 days.
	SikaCor 277:
	If a waiting time of more than 3 days is to be expected between priming and pouring loosit KC 340/35 or if a solvent-free primer or a particularly efficient corrosion protection is required, SikaCor 277 shall be used for priming. The freshly applied coating should immediately be blinded (broadcasted) with quartz sand $0,4 - 0,7$ mm granulometry. Waiting time between application of SikaCor 277 and pouring of loosit KC 340/35 minimum 24 hours.
Material temperature	Before application preferably around +15℃
Substrate temperature	+5 ℃ min. / +35 ℃ max.
Ambient temperature	+5 ℃ min. / +35 ℃ max.
Substrate humidity	Dry to mat-damp
Relative Air Humidity	90% max.
Application	Mixing proportion component A : component B = 100:12 p.b.w.
methods / Tools	Icosit KC 340/35 is supplied in pre-weighed composite units A + B. Component A must be stirred up thoroughly before use.
	When mixing 10 kg units of component A with component B, please observe:
	- stirrer running at approx. 600 – 800 r.p.m. under load
	- mixing time 2 minutes
	- make sure to also reach walls and bottom of container
	We recommend mixer CX 40 with stirrer WK 140 from Messrs. Collomix or mixer MXP 100 EQ with stirrer HS, 140 x 160 from Messrs. PROTOOL.
	For stirring up component A in 160 kg drums, we recommend gear stirrer GRS 300/1,5, equipped with three blades Ø 300 mm of Messrs. Geppert Rührtechnik GmbH. Gear stirrer has to be mounted on a drum lid which replaces the original lid during stirring. Stirring time approx. 5 minutes.
	Machine application of Icosit KC 340/35 is only feasible with specially designed 2- pack injection machines. Make sure that the correct mixing proportion is maintained and instructions of machine manufacturer are properly observed. Component A must be stirred up at regular intervals during application to ensure homogenous consistency. Observe instructions of equipment manufacturer.
Cleaning of tools	Mixing and application tools must be cleaned at regular intervals and immediately after use with Sika Cleaner 5. Cured material can only be removed mechanically.
Pot life (application time)	Approx. 11 – 12 minutes at +20 ℃
	After this time, the mixture becomes unserviceable.
	Do not add any solvents!
	Higher temperatures will shorten pot life!
Waiting time	Tack-free after approx. 2 h at + 20 °C
	Traffickable after approx. 24 h at + 20 ℃
Notes on application	For easier application, we recommend a material temperature of $+15$ °C.
	Undersealing layer thickness should be minimum 15 mm and maximum 50 mm.
	To achieve maximum adhesion on concrete, loose particles and cement laitance must be removed mechanically, e.g. by blastcleaning or scabbling.
	Substrate may be mat-damp. Before starting undersealing, water droplets have to be removed by vacuum or oil-freecompressed air
	Use of appropriate Sika Primers will improve adhesion considerably.

Curing progress



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Value Base	All technical data stated in this Product Data Sheet are based on laboratory tests.
Local Restrictions	Actual measured data may vary due to circumstances beyond our control. 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.
Health and Safety information	Components A + B of Icosit KC 340/35 are solvent-free. Component A falls under UN No. 3082, class 9 of the IMDG/IATA DGR transport regulations and is classified as "irritating" Component B is classified as "harmful". Local regulations as well as health and safety advice on containers must be observed.
	Component B of Icosit KC 340/35 contains Isocyanate.
	 Isocyanate containing material may cause irritation and – under permanent exposure – sensitization of skin, eyes and respiratory tract and may also lead to allergic reactions. Allergic persons and persons tending to illness of respiratory tract should not come into contact with this kind of materials. Therefore avoid direct contact with the liquid components (chemical resistant gloves/goggles/clothing) to prevent direct contact with skin and eyes. Use only in presence of adequate general and local exhaust ventilation to prevent concentration of vapours. Use properly fitted NIOSH respirator if ventilation is poor. Cured product (as combined with companion component) is chemically inert but very difficult to remove from skin or any objects to which it adheres. Cured product must be mechanically removed. In case of spill, avoid direct contact. Wearing protective equipment, contain and collect spill with absorbent material and place in suitable container. Ventilate enclosed area. Do not dispose of in sewer or drain. Dispose of spilled or excess product and container in accordance with applicable federal, state and local environmental regulations. Prior to as well as after application use fat-free barrier cream. After completion of work clean skin with plenty of soap and water and again protect with fat-containing barrier cream. 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 containing physical, ecological, toxicological and other safety-related data.
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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