Icosit[®] KC 220/60 TX

2-pack Epoxy binder

| Product- description | Icosit KC 220/60 TX is 2-component epoxy binder of low viscosity for a multitude of uses in the construction industry. |
|-------------------------|---|
| Uses | Icosit KC 220/60 TX is particularly suited for fixing anchor bolts of rail fixing systems e.g. on bridges, in tunnels, train washing installations, maintenance workshops, turning tables, crane tracks. System-tested and approved by DB (German Railways) and a number of other European Railway Authorities. |
| | Icosit KC 220/60 TX is furthermore designed as heavy-duty, load-bearing, pourable levelling grout for undersealing rail baseplates, bridge bearings and machine foundations. |
| Characteristics / | Excellent adhesion on concrete, metals and various coatings. |
| advantages | High mechanical resistance. |
| | Bonding bridge between old concrete and freshly poured concrete/cement mortar. |
| | May be used as pourable or sag-resistant epoxy mortar, depending on the degree of bulking with sand. |
| | Pressure and wear-resistant. |

Product data

| Consistency./. | | |
|----------------|-----------------------|---------------------|
| colour shade | | Icosit KC 220/60 TX |
| | Resin component A: | Liquid, yellowish |
| | Hardener component B: | liquid, beige |

Packaging

| | Icosit KC 220/60 TX |
|-------------|---------------------|
| Component A | 3,6 kg pail |
| component B | 4,4 kg pail |
| A + B | 8 kg |

Conditions of storage / shelf life

Icosit KC 220/60 TX 12 months from date of manufacture in cool and dry storage in unopened original containers (opened containers 3 months), protected from direct sun radiation, at temperatures from +10 ℃ und +25 ℃. Protect from frost.



Chemical base

2-component epoxy binder

0 – 4 mm ; 1:6 p.b.w.

Density

| | Icosit KC 220/60 TX | |
|-------------|---------------------|------------|
| Component A | ~ 1,2 kg/litre | ISO 2811-1 |
| component B | ~ 1,6 kg/litre | ISO 2811-1 |
| A + B | ~ 1,4 kg/litre | ISO 1183-1 |

Temperature resistance from -40 °C to +60 °C (-40 ° to 140 °F)

Compressive strength

| | Icosit KC 220/60 TX | |
|--|---------------------|----------------|
| Mixed with quartz sand 0.4–0.7 mm ; 1:1 p.b.w. | 90 – 100 N/mm² | (DIN EN 196-1) |
| Mixed with quartz sand | 40 – 50 N/mm² | (DIN EN 196-1) |

Tensile strength

| | Icosit KC 220/60 TX | |
|--|---------------------|----------------|
| Mixed with quartz sand 0.4 to 0.7 mm; 1:1 p.b.w. | 30 - 40 N/mm² | (DIN EN 196-1) |
| Mixed with quartz sand $0 - 4 \text{ mm}$; 1:6 p.b.w. | 10 - 20 N/mm² | (DIN EN 196-1) |

System information

Application details

| Consumption Icosit KC 220/60 TX | |
|--|--|
| Component A + B | |
| Bonding bridge between substrate and sag-resistant epoxy grout or old concrete and fresh cement mortar respectively. $0.8 - 1.2 \text{ kg/m}^2$ | |
| Primer on rough, even surfaces 0.5 – 0.6 kg/m ² | |
| Consumption | |
| Icosit KC 220/60 TXMixing proportion with sandIcosit KC 220/60 TXQuartz sand TX | |

| Icosit KC 220/60 TX | proportion with sand p.b.w. | KC 220/60 TX (kg) | sand (kg) |
|--|-----------------------------------|-------------------------|--------------|
| Production of pourable epoxy grout for fixing anchor bolts. Filling of wide joints and undersealing of baseplates with levelling layers from 15 to 80 mm thickness. Quartz sand 0.4 – 0.7 mm granulometry (consumption for 1 litre grout) | 1:1 | 0,85 | 0,85 |
| Production of sag-resistant epoxy mortar for undersealing or joint filling up to 40 mm thickness. Quartz sand 0 – 4 mm granulometry (consumption for 1 litre grout) | 1:6 | 0,24 | 1,44 |

| Substrate quality | Substrate must be solid, free | from oil, fat, loose and friat | ble particles. | |
|--------------------------|--|---|---|---------|
| Substrate preparation | Concrete: To achieve optimum adhesio grinding, scabbling or ideally Steel: | n, loose layers and cement blastcleaning, followed by t | laitance must be removed by horough de-dusting. | 1 |
| | Good long-term adhesion on Sa 2 1/2 as per EN ISO 12 94 | steel is only achieved by bl 4. | astcleaning to degree | |
| Application conditions | | | | |
| Material temperature | Before application preferably | approx. +20 ℃ (68 °F) | | |
| Substrate temperature | +5℃ min. / +35℃ max. (41° application and curing e.g.wi | F to 95°F). Minimum tempe th suitable thermal insulatio | rature must be maintained du n and/or infrared heating | uring |
| Ambient temperature | +5℃ min. / +35℃ max. (41 ℃ to 95℃). | | | |
| Substrate humidity | Dry | | | |
| Hints for application | | | | |
| Application | Icosit KC 220/60 TX: | | | |
| methods / tools | comp. A : comp. B = 45 : 55 (parts by weight); 53 : 47 (parts by volume) | | | |
| | Produce Icosit KC 220 by the proportion, followed by addin | prough mixing of both comp Ig quartz sand. | onents in the right mixing | |
| | Mixing of 1 kg units can be e is achieved. | xecuted manually with a stin | rrer until a homogenous cons | istency |
| | For Mixing 8 kg units, an electric or pneumatic stirrer is compulsory (e. g. mixer CX 40 with stirrer WK 140 of Messrs. Collomix or mixer MXP 1000 EQ with stirrer HS 2, 140 x 600, of Messrs. PROTOOL). | | | |
| | 1. r.p.m. of stirrer under loa | ad 600 – 800 revolutions/mi | nute | |
| | 2. mixing time 60 – 90 seco | onds | | |
| | After adding sand, stir up and bottom of pail. For a compulsory (Creteangle) | ntil a homogenous consiste adding sand to produce sag) mixer should be used. | ncy is achieved, also covering resistant epoxy mortar, a | g walls |
| Cleaning of tools | Mixing and application tools with Cleaner 5. Cured materi | must be cleaned at regular al can only be removed me | intervals and immediately after chanically. | ər use |
| Pot life | | | | |
| | | 5 – 10 ℃ | 20 ℃ | |
| | Icosit KC 220/60 TX | ~ 90 minutes | ~ 60 minutes | |
| | After this time, the mixture be | ecomes unserviceable. Do i horten pot life. | not add any solvents! | |
| Curing time | -99 | p | | |
| U - | | 5 – 10 ℃ | 20 °C | |
| | Icosit KC 220/60 TX | ~ 48 hours | ~ 18 hours | |
| | | | | |
| Value Base | All technical data stated in th Actual measured data may v | is Product Data Sheet are b ary due to circumstances b | based on laboratory tests. Byond our control. | |
| | | | | |

| 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. |
|-------------------------------------|--|
| Health and Safety Information | Components A + B of Icosit KC 220 TX are solvent-free. Component A falls under UN No. 3082, class 9, component B under UN Nr. 1760 "corrosive" of the IMDG/IATA DGR transport regulations. Observe health and safety instructions on containers. Local regulations as well as health and safety advice on containers must be observed. 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. |
| | Cured product (as combined with companion component) is chemically inert but 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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