

# FASERFIX®KS / FASERFIX®SUPER – Installation instructions

Our installation instructions/examples are suggestions that are generally accepted in the trade. Any special installation details required due to local conditions need to be specified by a qualified engineer. Technical regulatory instruments and guidelines applicable in the respective state or country should be taken into account for installation. Additional requirements must be met when the products are installed at petrol stations / tank installations. For more detailed information please contact the manufacturer.

1. Please ensure that the adjoining surface finishes are laid to finish permanently 3 to 5 mm higher than the top edge of the channel.
2. Where the installed product is subject to horizontal forces, e.g. in concreted areas and reinforced concrete structures, effective expansion joints have to be provided in both directions in accordance with DIN 18318.
3. The rigidity of the side walls of the FASERFIX SUPER channel body ensures that the dynamic forces created during the correct installation of adjoining concrete, asphalt or paving areas will not cause any damage. No additional reinforcements are required.
4. When the products are installed in paved or slab-covered surfaces, the joint along the channels should be filled with a mineral - or bituminous compound. Installation in areas exposed to heavy loads, from category D 400: any dynamic thrust forces acting on the paving must not impact directly on the sidewalls of the channels but have to be transferred to the backing structure through direct contact, e.g. by installing the first 3 rows in a modified concrete bedding.
5. Where it is possible that extreme thrust forces occur, e.g. where there are significant gradients, special additional installation details are required by the installer. For further information please contact us.
6. Any safety joints installed in accordance with EN 1433 can be filled up to the top edge of the surfacing, if required.

## Notes for bolting:

During bolting of gratings the maximum moment of force may not be exceeded.

FASERFIX SUPER	max. 40 Nm
FASERFIX KS	max. 15 Nm
FASERFIX SUPER with ductile iron frame and cage nut made of plastic	max. 20 Nm

Similarly, these instructions apply to gullies and points of entry. Where the channels are to be installed in paved areas with load classes D 400 to F 900, e.g. in air strips, logistic centres, container terminals, bus stations etc., the channel backing has to be increased and raised to the surface in the form of an in-situ concrete casing along the channel, with concrete quality at least C 30/37 X F4. The concrete casing should permanently stand up from the top edge of the channel by 3 to 5 mm. Where required, installers may opt to reinforce the concrete casing with reinforcement steel.

## Installation instructions for sealing joints in connection with FASERFIX SUPER according EN 1433

### Area of applications:

For permanently elastic connection points in cross joints of FASERFIX SUPER channels to meet the requirements of DIN EN 1433. For use internally and externally as well as for sealing face walls, gullies and the joints with the adjoining surface finishes along the channels.

### Substrate conditions:

The surfaces to be bonded have to be sufficiently firm, dry, clean and free from oil and grease to ensure that bonding and curing is not adversely affected. Where these conditions are in question, it is possible to apply a priming coat to the contact surfaces. To bridge the gap between the channel joints before applying a permanently elastic joint filler, attach a self-adhesive masking tape or installation tape. This will prevent the joint sealer to bond with the floor of the joint. In the case of cut cross joints, insert a round closed-cell PE cord between the flanks of the joint.

### Installation instructions for joint sealers in cross joints:

The filling of the joints has to ensure that the joint sealer can absorb any potential movements (i.e. bonding on both flanks of the joint). Once the joint has been filled with a sealer, use a smoothing compound to level the surface of the joint. Finally, use a soap solution to smooth off the surface of the joint. Where required, a joint can be made between the end of the cross joint and the joint with the surface covering along the channel.

## **Installation instructions for end caps and trash boxes:**

Clean the end cap surfaces and apply the permanently elastic sealing compound with a cross section of 6 x 15 mm around the periphery. Then compress the joint to a minimum thickness of 2 mm and hold in that position for 24 hours. Any sealing compound squeezing out at the edges should be smoothed off as described above. When sealing the joints with trash boxes, proceed in a similar way with the respective contact surfaces. The components are sufficiently heavy to hold the joints in place. Surfaces regulated by the WHG (Water Resources Act) are subject to special requirements. For further information please contact us.

Note: The information provided here represents our best knowledge and experience to date. We reserve the right to make changes as technology advances and for the purpose of continuing product development. Users of the products are responsible for checking the functions and application options of these products by consulting with qualified engineers. The mentioning of trade names does not constitute a recommendation and does not preclude the use of other products that have been tested in the same way. For further information please refer to the respective safety data sheets or application areas, e.g. for elastic sealing compounds. Any new edition of this publication renders older editions invalid. Date: 07/15

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