GUGGEMOS GmbH & Co. KG
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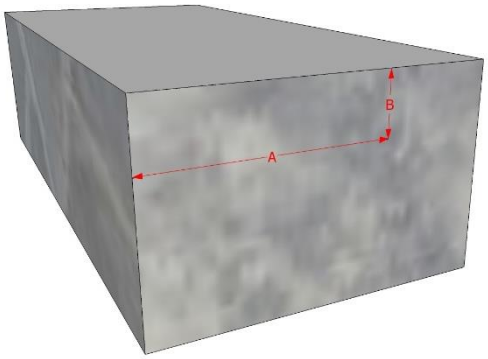
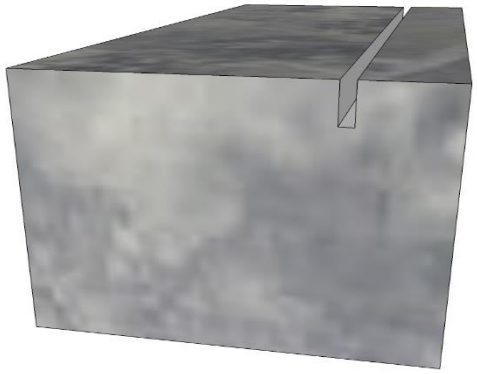
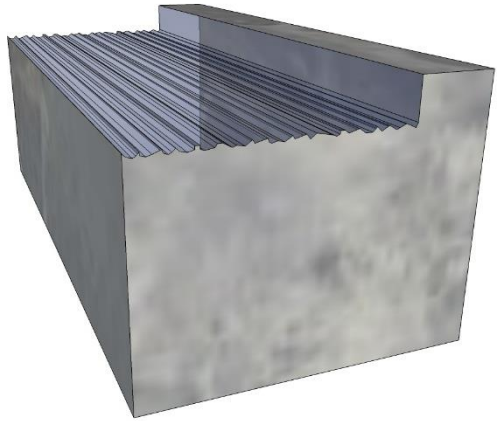
Installation instructions for Herkules SAN







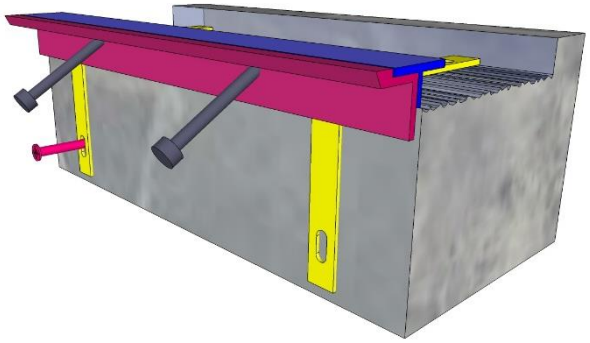
1. Chiseling out the area which has to be repaired

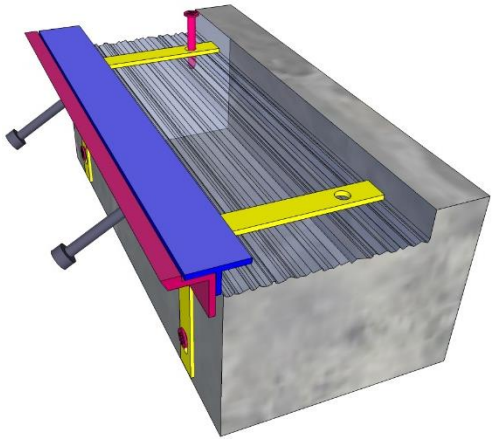
At first, make a cut with a diamond blade along the entire length of the joint, with the cutting depth B. Then chisel out the area in between with a jack hammer.

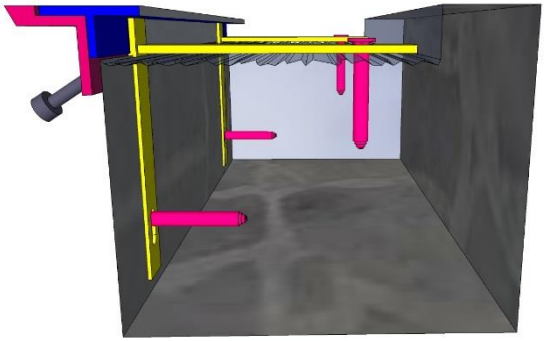
For our profile Herkules SAN we recommend chiseling out an area with the following dimensions:

width **(A)** = *20 cm* ~

depth **(B)** = **3** cm ~







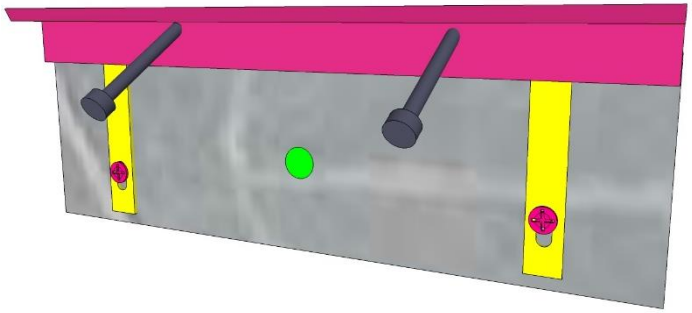
2. Levelling of the profile and fixing it to the undersurface

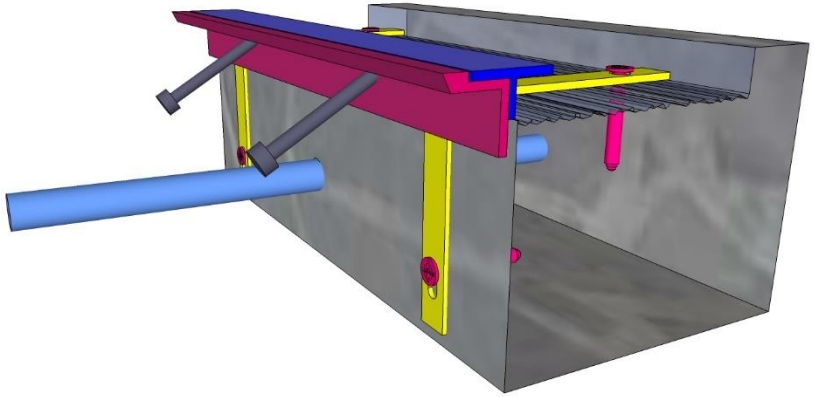
Cut the joint profile to the desired length with a cutting blade. With an axis longer than 3000 mm, extend the individual profile elements by using the integrated screw connections. The profile head has to be horizontal and level with the top edge of the existing foundation slab. For this, support the mounting brackets of the profile with some sort of bolster plates in order to achieve the correct height.

The mounting brackets of the profile (front side) have elongated holes. Start with fixing the profile using the appropriate screws on this front side. The elongated holes offer an additional possibility to adjust the profile to the correct height.

Afterwards, fix the top mounting brackets to the undersurface. The joint profile is now fixed to the undersurface and can be friction-locked to the existing foundation slab. The screw holes have a diameter of 8 mm.

Our joint profiles require no extra fixing systems and work with all common concrete screws. Please consult with the responsible manufacturer and take into consideration the information about the building site and the local conditions. We recommend the screws by the manufacturer *HILIT* due to the easy application and many years of good experiences.

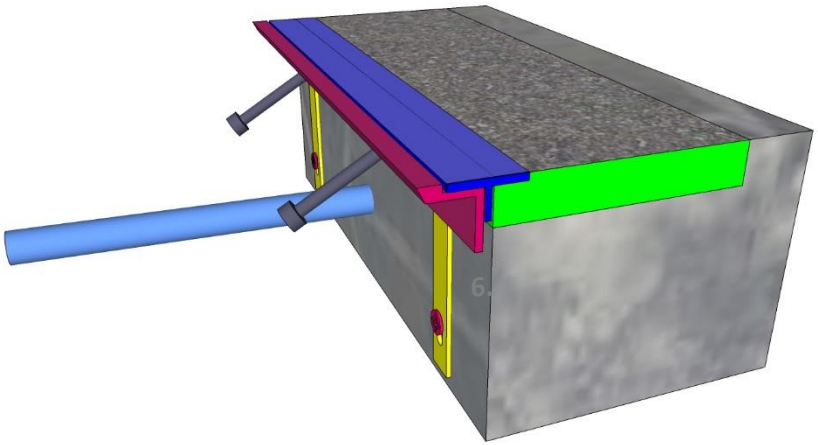




3. Load transfer doweling

In order to avoid height offsets in this area, we recommend to use load transfer dowels. For the installation of the dowels, you have to drill holes at the front side of the existing foundation slab. The diameter of the drill holes has to be 2 mm bigger than the diameter of the load transfer dowels. The depth of the drill hole can be exact, no excess necessary. The drill holes should be blown clean so that the dowels can be inserted without problem.

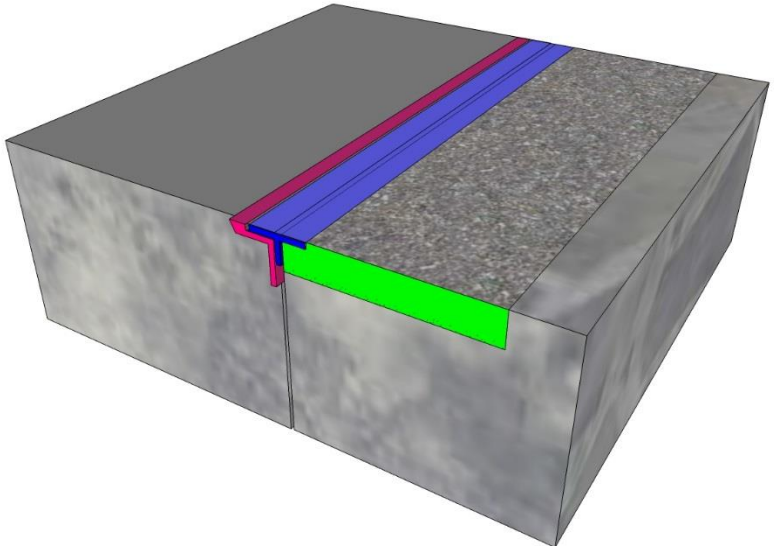
Please consult with your responsible building planner / structural engineer and take into consideration the information about the building and the local conditions in order to choose the correct dimensions and positioning of the load transfer dowels.



4. Placing the repair mortar

The undersurface has to be cleaned and prepared as specified by the manufacturer. In the end, the chiseled-out area and the profile have to be completely filled and embedded in the repair mortar without any air pockets and screeded level with the surface. At the junction between profile and mortar, please take care to bolster the profile and take a thinner consistency of the mortar, if necessary. When the profile is ready to walk on depends on the setting time of the repair mortar used.

Our joint profile requires no extra repair systems and works with all common repair materials and compounds. Please consult with the responsible manufacturer and take into consideration the information about the building site and the local conditions. We recommend the Rapid Set Repair Mortar by the manufacturer *Korodur* due to the easy application and many years of good experiences.



5. Casting concrete / Removal of the transport locks

It is absolutely necessary that the transport locks are only removed after the concrete of the new part is cast.

Please remove the color-highlighted transport locks as soon as the first movement due to shrinkage begins in the new part in order to guarantee best absorption of any movement of the profile. The transport locks are never screwed back in.

6. Protecting the profile head

Please do not use adhesive tape or similar materials to protect the profile head.

Our many years of experience show that these adhesive tapes are easily damaged and torn during concrete casting, and that a quick and residue-free removal of the tape after casting the concrete is not possible. Therefore, leave the profile head without any protection during concrete casting.

Any possible contaminants can always best be cleaned and visually improved immediately after the casting of the concrete, while still wet, using a rough cloth or a similar material.

Power troweling the profile head:

Please coordinate further steps with your subcontractor; never go directly over the profile heads with a power trowel or similar equipment. Any concrete coating the profile head can be damaging.

Please note: Our application-specific recommendations correspond with our experiences. We recommend to adjust the installation to the local conditions and refer to our general terms and conditions of sale and our delivery conditions. As a basic principle, we reject any liability claims for above mentioned instructions.