Specifications FloorBridge® CPS 20/80 TD

- New construction -

General Preliminary Remarks

Preliminary Remarks
The tendering contractor is to obtain information about the scope of the works to be performed, taking into account the local circumstances before submitting an offer/tender. Concerns about the nature of the works proposed in the tender should be shared with the client in written form. Only one system is to be used. The replacement of individual system parts with those of another system is not permitted. Regulations for accident prevention are to be observed.

Equal quality
The items list bellow show products as examples to ensure a uniform floor design and that quality, from a building and processing standpoint, exceed the relevant minimum requirements. Beyond the properties of the materials, the equivalence also consists of manufacturers' proof of quality control (ISO 9001 certificate) and environmental system (ISO 14001 certificate) as well as the buildings surveys and associated experts reports. In the case of unfilled bidder slots the examples provided are to be considered offers.

Technical building requirements
Prior to beginning, all surfaces to be glued must be inspected for workability and suitability. At increased chloride values of the concrete components in the joint area, these defective areas must be treated separately before bonding of FloorBridge® joint profiles. This includes the bond strength measurement, compression strength, surface level and residual moisture content. The residual moisture content for bonding the joint profile should be max. 4 %; with increased residual moisture content a suitable adhesive must be used, and the joint profile must be bonded at falling substrate temperatures. The minimum temperature thresholds listed must not be fallen below. If the temperature falls below the dew point bonding and coating works must be stopped. The application must adhere to the curing times stated in the technical data sheets. The concrete substrate must meet the site requirements defined by competent planning and following substrate preparation it must provide a tensile bonding strength (pull-out strength) of minimum 1,5 N/mm² and a compressive strength class acc. to DIN EN 1992-1-1 of minimum C25/30. If the substrate must be re-profiled, the re-profiling mortar must meet the site requirements, showing a minimum compressive strength of 40 N/mm². The substrate must meet technical building standards and requirements, be stable, firm, sufficiently rough, free of cement laitance, dirt, fats, oils, wax, water repellent material or other layers that can prevent or reduce bonding. Generally, following the required substrate preparation the concrete adhesion strength value must reach a minimum of 1.5 N/mm².

Technical requirements reaction resin
When working with reaction resin-based two or more component materials the minimum temperatures, relative humidity, moisture content of the substrate, mixing-ratio, pot-live, over-coating times etc. must be observed and adhere to, exactly to the figures stated in the manufacturer's technical data sheets.

Demolition waste removal, disposal of empty containers and packaging
The waste removal from the construction site and the proper disposal of accumulated waste from renovation and restoration measures must be in accordance with the relevant national waste removal directives and is to be included in the unit price. Removing all empty containers and packaging by transferring them to a legitimate, approved waste removal system. These activities must be demonstrated with the appropriate documentation. These costs are to be included in the unit price.

Dishing in the joint area
When the concrete dishes in the joint area it must be grinded down to the correct height before applying FloorBridge®. Furthermore, there can be no vertical movement in this area.

New construction
On site recess for **FloorBridge® CPS 20/80 TD**, width: ca. 330 mm, depth: ~ 24 mm.
For coated floor areas the recess depth varies accordingly, depending on the thickness of the adjoining floor coatings.

Installing the joint profile: FloorBridge® CPS 20/80 TD

01.0001.
Setting up the construction site
Arrangement of the construction site and technical support as well as all material transport and one time arrival and departure of operatives and clearing the construction site. Necessary electricity costs will be provided on site.

01.0002.
Substrate preparation joint area
Substrate preparation of the pre-formed recessed joint areas is carried out via grinding, chiselling, shot blasting etc. The substrate must be prepared via grinding with a diamond disc floor grinder, chiselling or shot blasting in such a way as to achieve the required tensile bonding strength of minimum 1,5 N/mm². A vacuum cleaning device is to be allowed for. The accumulated waste is to be properly disposed of.

01.0002a. Contingency item
Making the recess for FloorBridge®
Separation cuts to be made on both sides about 330 mm apart with the joint in the centre. Remove the concrete between them (as well as any existing floor coverings or epoxy layers etc.) to a recess depth of approx. ~ 24 mm for FloorBridge® CPS 20/80 TD. The accumulated waste is to be properly disposed of. A vacuum cleaning device is to be allowed for. The substrate must be prepared in such a way as to reach a tensile bonding strength of at least 1.5 N/mm². For coated floor areas the recess depth varies accordingly, depending on the thickness of the adjoining floor coatings.
If water tightness is required: If a sealing membrane is to be installed under the joint profile, the recess must be chiseled out deeper by approx. 3 mm.

01.0003. Contingency item
Substrate reprofiling with synthetic resin mortar
If there are deeper defects (> 5 mm) in the substrate, these areas must be treated with a bonding coat of a solvent-free epoxy resin first. A solvent-free epoxy reaction resin mortar must be applied fresh on fresh onto the bonding coat. The mixing ratio and the aggregate grading of the reaction mortar are depending on the respective depth of the defects to be re-profiled. The compressive strength of the reprofiling mortar to apply must meet the site requirements and must show a minimum strength of 60 N/mm².

01.0003a. Contingency item
Additional layers of epoxy mortar
Additional layers of epoxy mortar (as in the previous item), for additional layer thickness required, priced every 5 mm for additional layers.

01.0004. FloorBridge® SM 200 - sealing system
Supply and installation of FloorBridge® SM 200, bonded high-performance sealing membrane for sealing existing expansion joints (product data sheet and installation instructions must be strictly observed).

Sealing membrane:	FloorBridge® SM 200
Composite adhesive:	epoxy resin adhesive FloorBridge® Connect 01/03/04 or PMMA-adhesive FloorBridge® Connect 20
Membrane width:	ca. 20 cm
Elongation at break:	> 750 % (DIN EN ISO 527-3)

01.0004a. FloorBridge® SM 200 – Sealing System – Vertical Incline
Sealing tape as described in previous item, application for vertical inclines up to 200 mm high at locations walls, foot path, impact protection etc.

01.0004b. Contingency item for water tightness
FloorBridge® SM 200 – Sealing System – Surcharge Crossing
Surcharge for making and installing a FloorBridge® SM 200 – crossing

01.0004c. Contingency item for water tightness
FloorBridge® SM 200 – Sealing System – Surcharge T-Shaped Part
Surcharge for making and installing a FloorBridge® SM 200 – T-shaped part

01.0004d. Contingency item for water tightness
FloorBridge® SM 200 – Sealing System – Surcharge L-Shaped Part
Surcharge for making and installing a FloorBridge® SM 200 – L-shaped part

01.0004e. Contingency item for water tightness
FloorBridge® SM 200 – Sealing System – Surcharge Inner Corner
Surcharge for making and installing a FloorBridge® SM 200 – Inner Corner

01.0004f. Contingency item for water tightness
FloorBridge® SM 200 – Sealing System – Surcharge Outer Corner
Surcharge for making and installing a FloorBridge® SM 200 – Outer Corner

01.0004g. Contingency item for water tightness
FloorBridge® SM 200 – Sealing System – Surcharge Wall Connection
Surcharge for making and installing a FloorBridge® SM 200 – Wall Connection along the wall

01.0005.
Joint profile FloorBridge® CPS 20/80 TD
FloorBridge® CPS 20/80 TD, prefabricated polymer floor joint profile in carbon fiber composite technology, rust-free, heavy load-bearing capacity and viscoelastic, supply and install (according to manufacturer`s guidelines).
Installation and glueing FloorBridge® CPS 20/80 TD with system-tested two-component epoxy resin adhesive FloorBridge® Connect 01/03/04 or PMMA-adhesive FloorBridge® Connect 20. If necessary, alignment of the joint area between the joint profile and the concrete surface with system-tested two- component epoxy resin adhesive FloorBridge® Connect 01/03/04 or PMMA-adhesive FloorBridge® Connect 20.

Characteristics:	metal-free
Expansion coefficient:	similar to car park coating
Expansion insert:	replaceable without damaging the car park coating
Joint profile width:	ca. 325 mm
Joint profile thickness:	ca. 18 mm
Horizontal joint movement total:	80 mm (-30/+50 mm)
Vertical joint movement total:	50 mm (-25/+25 mm)
Composite adhesive:	epoxy resin adhesive FloorBridge® Connect 01/03/04 or PMMA-adhesive FloorBridge® Connect 20
Colour joint profile:	grey
Colour expansion insert:	black

CE-marked according to EN 13813
AgBB-conform

01.0005a.
Installing a tight, force-fitted transition to the car park coating
Following installation of the joint profile the coating flange of the joint profile is prepared by grinding means and the coating system subsequently applied tightly and neatly onto these prepared coating flanges. A force-fitted connection to the car park coating must be achieved and no sealant or the like are allowed here.

01.0005b. Contingency item
Round Columns
Surcharge for obstacle around round columns. In the area of round columns, the FloorBridge® joint profile is adapted to the round shape accordingly.

01.0005c. Contingency item
FloorBridge® CPS 20/80 TD - Surcharge for T-shaped part
Surcharge for producing and installing a T-shaped part

01.0005d. Contingency item
FloorBridge® CPS 20/80 TD - Surcharge Angle-Shaped Part (90° Angle)
Surcharge for making and installing of an Angle-Shaped Part (L-Shaped Part)

01.0005e. Contingency item
FloorBridge® CPS 20/80 TD - Surcharge Cross-Shaped Part
Surcharge for making and installing of a Cross-Shaped Part

01.0005f. Contingency item
FloorBridge® CPS 20/80 TD - Surcharge Wall Plate
Surcharge for making and installing of a Wall Plate (ca. 200mm height) for protecting the sealing membrane at the vertical incline.

01.0005f. Contingency item
FloorBridge® CPS 20/80 TD - Surcharge Floor-Wall-Shaped Part 90°
Surcharge for making and installing of a Floor-Wall-Shaped Part 90°

01.0005g. Contingency item
FloorBridge® CPS 20/80 TD - Surcharge wall-connection profile
Surcharge for making and installing of a wall-connection profile

01.0006
Coating system
A coating system is applied to the prepared joint profile surface. Consider necessary slip and abrasion resistance, etc. Important: To prevent contamination and staining of the black expansion insert, the expansion insert must be covered with masking tape prior to the coating work.
In general, the specifications given by the material manufacturers have to be observed and adhered to.