

QUELLFLEX

Properties:

QUELLFLEX is a single-component, water-expandable, pasty sealant based on polyurethane.

QUELLFLEX contains polymers for limited swelling with water in cured state.

QUELLFLEX is used for sealing joints, sectional and reinforcing steels, precast panels, shafts, annular gaps, pipe lead-throughs etc.

In addition it is used to underlay hydrophilic rubber profiles in the case of uneven subsurfaces and as assembly paste for installing of *FERROQUELL* metal water stops.

Technical data:

Substance data:

Consistency	pasty	
Colour	grey	
Odour	oil-like	
Spec. density (23°C)	approx. 1.1 g/cm ³	DIN EN ISO 2811-1
Dyn. viscosity (23°C)	approx. 650 Pas	DIN EN ISO 2555

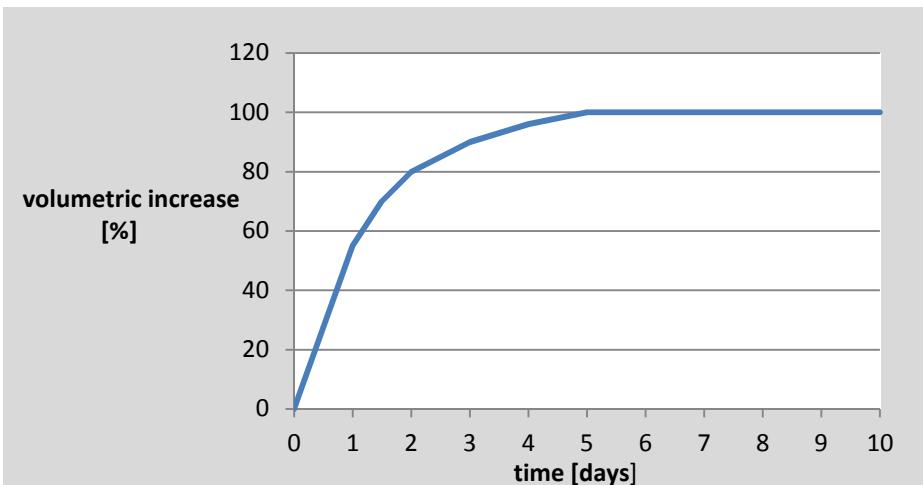
Reaction data (23°):

Processing temperature	5 - 40°C	substrate temperature
Tack-free time *	approx. 30 min	ASTM C679
Setting process *	approx. 3 mm/24 h	

Properties of cured mastic:

E-modulus	approx. 0.15 MPa	DIN EN ISO 527
Tensile strength	approx. 0.75 MPa	DIN EN ISO 527
Elongation at break	approx. 350 %	DIN EN ISO 527
Shore A hardness	approx. 15	DIN ISO 7619-1
Water absorption (tap water)	approx. 100 %	DIN EN ISO 62

Volumetric expansion process:



Bond strength at concrete		
dry	approx. 0.55 N/mm ²	DIN EN 1542
slightly moist	approx. 0.32 N/mm ²	DIN EN 1542

(* measured at 23°C / 50 % rel. humidity)

Processing:

The surfaces shall be firm, sustainable, clean, dry and free of separating substances (fats, oils, etc.).

QUELLFLEX shall be applied on the adhesive surface evenly with pressure. For processing we recommend to use the *Handpresse Z1* (cartridges), *Z2* (aluminium foil sausages) or an equivalent caulking gun. Opened containers should be used up as soon as possible.

The full hardening time depends on the humidity and temperature. By increasing the temperature and humidity the full hardening time can be reduced.

Safety information:

QUELLFLEX contains isocyanates and is classified as hazardous according to Regulation (EC) 1272/2008 (CLP).

It is therefore necessary, before beginning processing, to become familiar with the precautions and safety advice as indicated in the material safety data sheet.

Packaging:

310 ml cartridges
600 ml aluminium foil sausages

Bigger packaging on request.

Storage:

Shelf life at least 12 month in original packaging when stored in dry conditions between 15-25°C, protected from heat , frost and direct sunlight.

After the expiration the use of the product is generally not recommended, unless an approval has been provided by TPH. This approval can only be obtained by the quality assurance department of TPH releasing the material after verification of main properties being within specification.

Disposal:

Small quantities of cured product residues can be disposed of as normal domestic waste. Dispose of not cured product components must be effected in accordance with the corresponding local regulations. For further information please refer to the material safety data sheets.

**Legal notice:**

The correct and thus successful application of our products is not subject to our control. A guarantee can be issued for the quality of our products within the framework of our sales and supply conditions, however not for successful processing. All data and specifications in this specification sheet are based on the present state of the art and the right to changes and adaptations for the sake of development remains explicitly reserved. The consumption specifications designated by us can be only average empirical values, where deviations are possible on an individual basis and therefore cannot be excluded by us.

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