

FIX-O-FLEX F NV (Variante DI-2)

Properties:

FIX-O-FLEX F NV is a single-component adhesive and sealing compound on silyl modified polymere (SMP) basis, that cures into an elastic product when in contact with moisture. *FIX-O-FLEX F NV* is a highly recommended solution for special horizontal applications due to its self-levelling (self-smoothing) property and its high chemical resistance. *FIX-O-FLEX F NV* acts as a permanently elastic joint grouting compound for joint renovation, e.g. in combination with acrylate gels or TPH hydrophilic rubber, if possible movements of the joints are lower than 10 %.

FIX-O-FLEX F NV is even suitable for adhesion on moist surfaces; it is highly UV resistant and can be coated over. Due to its self-levelling properties, *FIX-O-FLEX F NV* is suitable exclusively for horizontal areas (coating knife application). *FIX-O-FLEX F* (palette-knife application) can be used for vertical coatings.

Range of applications:

- primerless adhesion and sealing on polyester (GFK), PVC, plexiglass, polystyrene, macrolon, steel, stainless steel, aluminium, concrete, clinker, marble, glass and wood
- sealing compound for chemically contaminated joints, if only low movement is expected (max. 10% movement absorption)
- sealing and adhesion on moist subsurfaces
- horizontal coating of e.g. containers, collecting basins, duct shafts
- grouting and sealing of e.g. connection joints, penetrations and breaks even in duct systems and sewage-treatment plants

Technical data:

Consistency	:	high viscous, self-levelling
Colour	:	blue
Odour	:	odourless
Dyn. viscosity	:	21000 mPas (100 U/min, 23°C) 54000 mPas (1 U/min, 23°C) 53000 mPas (1000 U/min, after 24h/5°C) 83000 mPas (1 U/min, after 24h/5°C) 56000 mPas (100 U/min, after 96h/5°C) 88000 mPas (1 U/min, after 96h/5°C)
Spec. density	:	1.5 g/cm ³ (DIN 52451-PY)
Skin formation time **	:	approx. 1 h
Completely hardened **	:	approx. 2-3 mm/24 h
Hardness *	:	approx. 30 (Shore A Type)
Max. movement absorption	:	25 %
Value at strain***	:	approx. 0,4 N/mm ² (at 100% elongation)
Value at tear***	:	approx. 1,0 N/mm ²
Elongation of break***	:	approx.400 %
Shrinking	:	max. 0.3%
Tear strength on concrete*	:	> 0,6 N/mm ² (Smooth surface; primed with FIX-O-FLEX PRIMER) >0,5 N/mm ² (Rough surface; primed with FIX-O-FLEX Primer) >0,62 N/mm ² (Smooth surface; primed with HYDROPOX EPG)
Processing temperature	:	5° - 40°C (temperature of structural component)
Temperature resistance	:	approx. -40° to +90°C
Delivery form	:	16 kg tin bucket
Storage	:	cool and dry, approx. 12 months in original containers

(* measurement after 4 weeks curing at 23°C / 50 % rel. humidity)

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

(*** 2 mm film thickness; 28d / 23°C / 50% air humidity)

Processing:

The subsurface must be hard, stable, unsoiled and free of separating substances (grease, oil etc.). Subsurfaces must be free of substances containing tar as this would reduce adhesion. For the same reason application on newly-laid bitumen is not recommended. If its surface is free of grease, adhesion of max. 0.45 N/mm² can be achieved on old bitumen.

FIX-O-FLEX F NV should be applied with pressure evenly onto the adherent area. We recommend using e.g. a notched trowel, a steel float or a coating knife for this application. Containers already opened should be used up as quick as possible. A funnel or watering can may be used to facilitate application if *FIX-O-FLEX F NV* is used for grouting horizontal joints. If applied as coating the wet layer should be 3 mm thick.

Adhesion to plastics that are difficult to bond e.g. PE or PP (polyolefin) should be checked prior to application. A preliminary compatibility test is necessary for the application on coated subsurfaces.

The strength of adhesion on slightly moist concrete surfaces is similar to that on dry primed concrete. *FIX-O-FLEX F NV* can be used without primer on contact surfaces such as e.g. aluminium, galvanized sheet plate, PVC, PS, macrolon etc. Pre-treatment with *FIX-O-FLEX Primer* for dry and *HYDROPOX* for wet subsurfaces might be necessary in the case of e.g. strongly weathered surfaces. The time for complete hardening depends on humidity and temperature.

Time for complete hardening can be shortened by increasing temperature and humidity.

Please note:

FIX-O-FLEX F NV does not contain any solvents, softeners, isocyanates or silicone. The precautionary measures and safety recommendations included in the Safety Data Sheet must be read and understood prior to starting work. Even in the case of products where no marking is required, the standard precautionary measures applicable for chemical products should be observed. *FIX-O-FLEX F NV* contains aminosilane that can cause allergic reactions.

Proper and as a result successful use of our products is beyond our control. For this reason we can only guarantee the quality of our products within the framework of our Terms and Conditions of Sale and Delivery, not, however, for their successful processing. All data and information in these instructions are based on the latest state-of-the-art technology, we expressly reserve the right to make modifications or adaptations to the development. The consumption data quoted by us can only be average experience values, deviations in individual cases are possible and can therefore not be excluded.

TPH 061108