

## TECHNICAL DATASHEET

Status 22.06.2020

Item no. S02101500  
S02110750  
S02300290

## PROPERTIES

**FlexproofX® 1** is a single-component sealant with a high elasticity and adherence, especially composed to withstand the high alkalinity of the concrete. **FlexproofX® 1** is available in different viscosities, which offers the consumer the choice of using the perfect viscosity for the best installation (see table "technical features").

**FlexproofX® 1** is installed right at the place where the problem of wet constructions emerges: at the surface of the construction. **FlexproofX® 1** can be applied either on dry or wet concrete, steel, stainless steel, stone, plastic, etc. without requiring a primer.

**FlexproofX® 1** can be installed either in one or two coats depending on the conditions (exposure grade, utilisation grade) to which the device is subjected (minimum coat thickness 1.5 mm). If two coats are to be applied, the especially designed **FlexproofX® 1** reinforcement fabric is to be laid between the two coats.

The possibility of covering **FlexproofX® 1** with a coat of fine sand offers various options in renovation work (balcony, steps, etc.).

The above mentioned characteristics of elasticity combined with a high adherence allow **FlexproofX® 1** to tolerate movements without losing its waterproofing function.

## APPLICATION

**FlexproofX® 1** is mainly applied as an external linear sealant for construction joints and as a sealant over the entire surface in prefabricated constructions.

The single component sealant is installed right at the place where the problem of humidity emerges: at the surface area of a construction. The installation of a supplementary layer in earth filled areas is necessary to protect **FlexproofX® 1** against mechanical damage. **FlexproofX® 1** resists negative pressure without any problem.

By sanding **FlexproofX® 1** with silica sand, **FlexproofX® 1** can also be applied as a bond sealant under floating floor screed, tiles or plates. **FlexproofX® 1** can also take over the function of a water vapour barrier in renovation.

In case of installing **FlexproofX® 1** expansion joints **FlexproofX® 1** is injected as a 1K- cartridge material in ordinary cartridges. **FlexproofX® 1** 1K- cartridge material seals the joint long lasting only within a matter of hours, even in case of considerable movement.

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### TECHNICAL DATA

	FlexproofX® 1 high viscous	FlexproofX® 1 spray	FlexproofX® 1 self-levelling	FlexproofX® 1 1K
Colour	grey	grey	grey	grey
Consistency	firm (64 – 160 Pa.s)	spray	low viscous (3000 - 5000 mPa.s)	firm
Density [g/cm <sup>3</sup> ]	1.54	1.54	1.44	1.40
Shore hardness (Shore A)	40	40	30	40
E-modulus [N/mm <sup>2</sup> ] (2mm-film)	0.85	0.85	0.55	0.7
Tensile strength [N/mm <sup>2</sup> ] (2mm-film)	1.25	1.25	1.6	1.2
Elasticity when breaking [%] (2mm-film)	250	250	450	300
Adhesive strength [N/mm <sup>2</sup> ]	depending on surface	depending on surface	depending on surface	depending on surface
Temperature resistance	-40°C to +90°C	-40°C to +90°C	-40°C to +90°C	-40°C to +90°C
Watertightness (installation in 2 layers - thickness 2,5 mm - with reinforcement mesh)	leakproof (72 h) on 5 mm slot up to 4 bar	leakproof (72 h) on 5 mm slot up to 4 bar		testing not relevant
Vapour resistance S <sub>D</sub> -value [m] (thickness 1,5 mm)	6.4	6.4	6.4	not relevant

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Resistant to weather conditions after	5 min	3 min	15 min	10 min
Consumption [kg/m] (thickness 1,5mm, width 0,3m)	0.7	0.7	0.65	depending on the width of the joint
Consumption [kg/m] (thickness 2,5mm, width 0,3m)	1.2	1.2	1.1	depending on the width of the joint

**PACKAGING & STORAGE**

<b>FlexproofX® 1</b> firm:	5 kg - bucket 15 kg - bucket	
<b>FlexproofX® 1</b> spray:	600 ml - aluminium tubular bag	(12 tabular bags / carton)
<b>FlexproofX® 1</b> NV self-levelling:	7.5 kg - aluminium bag	
<b>FlexproofX® 1</b> 1K - cartridge material:	290 ml - cartridge 600 ml - aluminium tubular bag	(12 cartridges / carton) (12 tabular bags / carton)
<b>FlexproofX® 1</b> UV:	290 ml - cartridge	(12 cartridges / carton)

**FlexproofX® 1** can be stored in the original unopened packaging for at least 12 month at temperatures between +5° C and +25° C.

The opened bucket (5 kg; 7,5 kg; 15 kg) of **FlexproofX® 1** firm/NV can be stored for about 6 month at temperatures between +5° C and +25° C. A skin can emerge on the surface of the material in the bucket which simply has to be pulled off.

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## INSTALLATION

The substrate has to be dust and fat free. Loose particles have to be removed before installing **FlexproofX<sup>®</sup> 1**.

**FlexproofX<sup>®</sup> 1** (firm) is installed with a trowel or a firm brush on the respective surface.

**FlexproofX<sup>®</sup> 1** (spray) is installed with the especially designed **FlexproofX<sup>®</sup> 1** spray gun.

**FlexproofX<sup>®</sup> 1** NV (self-levelling) is poured out of the aluminium bag onto the horizontal surface and if necessary applied by a squeegee.

**FlexproofX<sup>®</sup> 1** 1K - and UV - cartridge material is installed with a conventional cartridge gun in the working joint.

Temperature for application: +5°C to +30°C

## ACCESSORIES

Item no. S02101500	FlexproofX <sup>®</sup> 1 (15 kg bucket)
Item no. S02110750	FlexproofX <sup>®</sup> 1 NV (7,5 kg bucket)
Item no. S02300290	FlexproofX <sup>®</sup> 1 1K - cartridge 290 ml
Item no. S02230600	FlexproofX <sup>®</sup> 1 1K - tubular bag 600 ml firm
Item no. S02240600	FlexproofX <sup>®</sup> 1 tubular bag 600 ml sprayable
Item no. S02320290	FlexproofX <sup>®</sup> 1 UV cartridge 290 ml
Item no. S02900250	FlexproofX <sup>®</sup> 1 reinforcement fabric 250 L=50 m

### Note:

The information on this data sheet is based on our experience and given to the best of our knowledge, but is not legally binding. Recommendations, which are at variance with those stated in this data sheet, are only binding for us, when confirmed in writing. The manufacturer is not responsible for damages resulting from the misuse or incorrect storage of the product. For the accuracy of this information we are liable within the scope of our delivery and service conditions. Creation date: 06/2020