

# FLEXPROOF X<sup>®</sup> 1

## WATERPROOF SEALANT AND SEALING SYSTEM



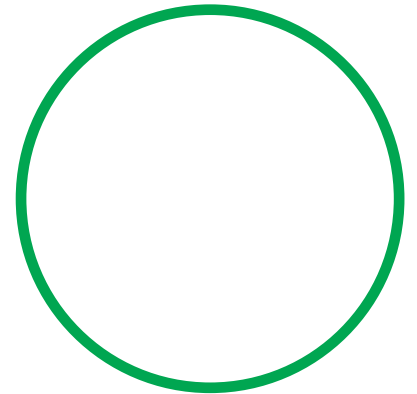
### PRODUCT DESCRIPTION

**Flexproof X<sup>®</sup> 1** is a one component sealant with a high elasticity and adherence, especially prepolymer mixture to withstand the high alkalinity of the concrete which practically allows no water absorption to take place even with continuous water exposure. It is installed right at the place where the problem emerges at the surface can and also be applied either on dry or wet concrete, steel, stainless steel, stone and plastic without using a primer in advance.

**Flexproof X<sup>®</sup> 1** is available in different viscosities, which offers the consumer the choice of using the perfect viscosity for the best installation. It can be installed in one or two layer depending on the conditions to which the device is subjected. In case of installing **Flexproof X<sup>®</sup> 1** in two layers, we recommend to embed the specially designed Flexproof Reinforcement Mesh in between the two layers.

Furthermore, **Flexproof X<sup>®</sup> 1** is characterised by a high resistance against UV and atmospheric conditions, thus the sealant can be applied as an external sealant for exposed construction applications. The possibility of covering **Flexproof X<sup>®</sup> 1** with a layer of fine sand offers various options in renovation work when the need to apply a covering or addition finishing layers on top.

As a result, non-mineral materials can be also be perfectly sealed with **Flexproof X<sup>®</sup> 1** and in addition to the special adaptability of the composition, particular praise must also be given to the sealant's high bonding and adhesive tensile strength values. As a result, cracks and joints (tested to 5mm at 4 bar) as well as surfaces can be permanently sealed.



### ADVANTAGES

- Specially developed for sealing reinforced concrete structures.
- High resistance against the alkalinity of the concrete.
- Ideal for permanently sealing structural parts with ground contact.
- No primer required.
- One component, therefore ready to use, no mixing required.
- Bonds almost all sub-surfaces.
- Dries completely and very quickly.
- Rainproof after only a few minutes.
- Highly flexible therefore highly adapt at bridging cracks.
- Non-sensitive to weather.
- Bonds to damp and cold sub-surfaces.
- Easy to apply with a roller or brush, or a scraper, spraying device or cartridge gun.
- Very economical.
- Isocyanate free.
- Potable water certified.



## AREAS OF APPLICATION

- **Flexproof X®1** is also applied as a surface sealant for joints and in pre-cast concrete joint application. The one component sealant is installed right at the place where the problem of humidity emerges at the surfaces area of the substrate.
- Also negative pressure can be handled with **Flexproof X®1**.
- By applying **Flexproof X®1** with silica sand it is possible to use **Flexproof X®1** as a compound sealant under floating floor screeds, tiles or other covering.
- In case of installing **Flexproof X®1** into expansion joints and you require a fast-chemical cure, we offer **Flexproof X®1** as a two-part cartridge material in ordinary cartridge material one component moisture. **Flexproof X®1** gives a long-lasting seal even in case of considerable movement.
- **Flexproof X®1** is used extensively for repair to expansion joints and to cracks in concrete. It can be also used as a waterproofing membrane and is easily applied onto the concrete substrate.

*Note :* The product's design and performance, its intended use, installation and final confirmation and approval for use, must be provided by the project's Design Engineer and Project Manager.



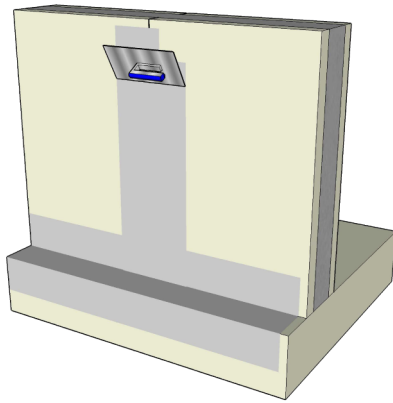
## PHYSICAL PROPERTIES

	Flexproof X®1			
	High Viscous	Spray	Self-Levelling	1K / 2K
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	30 / 40
E-Modulus (N/mm <sup>2</sup> ) (2mm-film)	0.85	0.85	0.55	0.7 / 0.6
Tensile Strength (N/mm <sup>2</sup> ) (2mm-film)	1.25	1.25	1.6	1.2 / 1.5
Elasticity when breaking (%) (2mm-film)	250	250	450	300 / 550
Adhesive Strength (N/mm <sup>2</sup> )	Depensing on surface	Depensing on surface	Depensing on surface	Depensing 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 2.5mm with reinforcement mesh)	Leakproof (72h) on 5mm slot up to 4 bar)	Leakproof (72h) on 5mm slot up to 4 bar)		Testing not relevant
Vapour resistance SD-value (m) (thickness 1.5mm)	6.4	6.4	6.4	Testing not relevant
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
Application Temperature (°C)	+5°C to +30°C	+5°C to +30°C	+5°C to +30°C	+5°C to +30°C

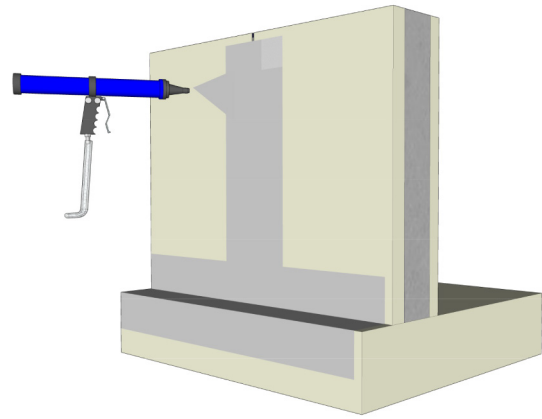




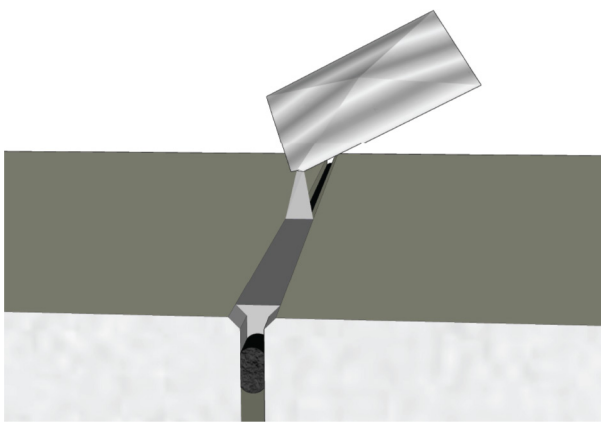
## TYPICAL APPLICATIONS



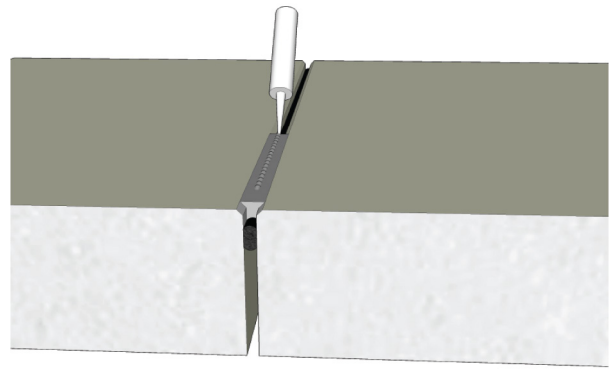
TROWELABLE GRADE



SPRAYABLE GRADE



POURABLE GRADE



GUN GRADE



## INSTALLATION PROCEDURES

1. The substrate has to be dust and fat free. Loose particles have to be removed before installing FlexproofX® 1.
2. FlexproofX® 1 (firm) is installed with a trowel or a firm brush on the respective surface.
3. FlexproofX® 1 (spray) is installed with the especially designed FlexproofX® 1 spray gun.
4. FlexproofX® 1 NV (self-levelling) is poured out of the aluminium bag onto the horizontal surface and if necessary, applied by a squeegee.
5. FlexproofX® 1 1K-/ 2K- and UV- cartridge material is installed with a conventional cartridge gun in the working joint.

Note: Refer to **CJSA** for further information on installation procedures and suitability of application.



## PACKAGING

Flexproof X®1 Firm (Trowelable Grade)	5kg pail 15kg pail 26kg pail
Flexproof X®1 Spray (Sprayable Grade)	600ml sausage (12 sausages per carton)
Flexproof X®1 NV Self-Levelling (Pourable Grade)	7.5kg aluminium bag
Flexproof X®1 2-Part (Gun Grade)	280ml cartridges (12 cartridges per carton)
Flexproof X®1 1-Part (Gun Grade)	290ml cartridges (12 cartridges per carton) 600ml sausage (12 sausages per carton)





## STORAGE AND SHELF LIFE

**Flexproof X®1** can be stored in the original unopened packing for at least 12 months at temperature below +30°C.



## WRITTEN SPECIFICATION

Where shown in the drawings, the waterproof sealant and sealing system must be **Flexproof X®1** as supplied by **CJSA**. The application / installation of the product must be in accordance with the manufacturer's recommendations.



## HEALTH AND SAFETY INFORMATION

For further information or advice on health and safety precautions, safe handling, storage and correct disposal of products, please refer to the most recent product Safety Data Sheet (SDS), which is available upon request. In confined spaces or in still air conditions, the use of a ventilation fan or suitable respirator should be used, and the advice and approval of the Site Safety Supervisor is essential.



## DISCLAIMER

The information and the recommendations relating to the application and end use of this product are given in good faith and are based on the information provided by the manufacturer of the product and/or the Company's current knowledge and experience in connection with the product when properly stored, handled and applied under normal conditions and no liability of final function at the job site is assumed. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability of, or fitness for, particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written and/or oral recommendations, or from any other advice offered by the Company. The Company also has no express or implied knowledge of any particular purpose for which the product is required and any such information given will not be taken into account in the supply of this product. No responsibility or liability by the Company will be accepted for misuse, misreading or derivation from recommended guidelines in respect of this product and the user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. The information contained in our brochure may change at any time without notice. Any use of this product, **Flexproof X®1**, in any application should be approved as suitable for use/application by the Design Engineer and Project Manager.

**Effective Date: 14 NOVEMBER 2019**

### **CJSA**

- Unit 2, 18 Farrow Circuit Seaford Rise, South Australia 5169, AUSTRALIA
- +61 432 423 103
- admin@cjsa.net.au

