






SUPERFLEX PUR

PAINTABLE LOW MODULUS POLYURETHANE BASED SEALANT FOR STRUCTURAL JOINTS

SUPERFLEX PRIMER

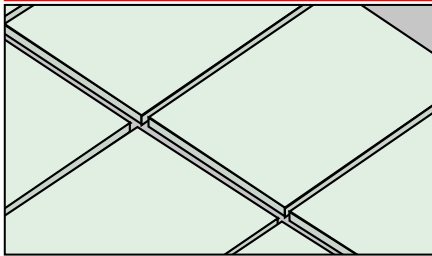
POLYURETHANE BASED PRIMER FOR OLD AND POWDERY SURFACES

GRANTS *LEED* CREDITS

| CHARACTERISTICS | ENVIRONMENTAL | METHOD OF USE | | PRECAUTIONS |
|--|---------------|--|---|-------------|
|  WATERPROOFING | |  APPLY BY GUN (SUPERFLEX PUR) |  APPLY BY BRUSH (SUPERFLEX PRIMER) | |

PROBLEM

SEAL EXPANSION JOINT SUBJECT TO HEAVY LOADS



When a concrete structure is subjected to a thermal stress or loading, such as that caused, for example, by the filling of a water tank, expansion or shrinkage tends to occur in specific points.

Therefore care must be taken with the joints in these points in order to reduce structural stress, creating watertight seals that are permanently elastic.

SOLUTION

SUPERFLEX PUR is a low-modulus polyurethane based sealant that stabilises in the form of a rubbery and permanently elastic material, unaffected by atmospheric agents, resistant to ageing, water immersion, corrosive atmospheres and various chemical products and solvents.

APPLICATION FIELDS

SUPERFLEX PUR is used for long-lasting sealing of joints in concrete, prefabricated elements, masonry, natural and artificial stone, waterproof sealing of structures subject to structural stress such as tanks, stadium steps, etc.

SUPERFLEX PUR offers excellent adhesion also on steel, copper, aluminium, glass and plastic.

ADVANTAGES

- Remains permanently elastic.
- Excellent water resistance.
- Excellent durability and resistance to aggressive atmospheric agents.
- Excellent rendering and stability.
- Cheap and easy to use.
- It can be painted.

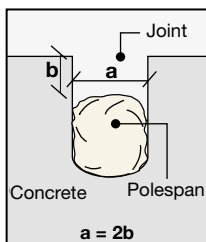
METHOD OF USE

• SURFACE PREPARATION

Any powdery residues, loose parts, oil, grease, bitumen or ice must be cleaned off the surfaces to be sealed. Porous surfaces such as cement, masonry, mortar etc. must be cleaned mechanically beforehand using a steel brush or abrasive disc. On old surface, before sealing apply a coat of **SUPERFLEX PRIMER** in order to consolidate and uniform the base (1).

• APPLICATION

To finish the **SUPERFLEX PUR** sealant, on the surface of joints, masking with adhesive tape must be applied on the two sides of the edge of the joint, which will be removed once the sealant has hardened (2). To obtain joints of the correct depth, before applying the sealant, insert a flexible backing



strip in closed cell expanded polyethylene (POLESPAN); the diameter of the backing strip should be 20% greater than the width of the joint in order to provide support for the freshly applied sealant while allowing **SUPERFLEX PUR** to move freely when set. The width of the joints must correspond to predictable movements. The functional resistance of the product applied develops after about 48 hours.

• COVERAGE

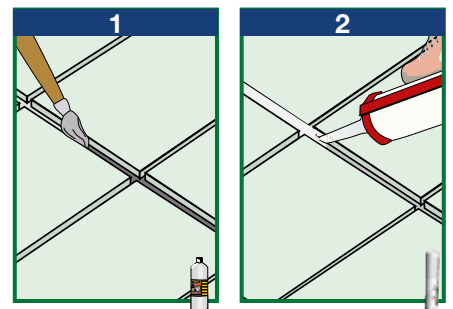
Consumption per 10x10 mm joint:
3 m/310 cm³.

• PRECAUTIONS

- For use on old and crumbly surfaces made of absorbent building materials, it is advisable to use **SUPERFLEX PRIMER** first.
- The ideal depth of a joint is half the width. When the depth exceeds the width, a compressible polyethylene filling strip must be added.
- Non-porous surfaces such as aluminium,

glass, metal etc. must be cleaned with a solvent, such as trichloroethylene before applying the sealant.

- The application temperature must be no less than +5°C.
- It is not resistant to organic solvents or mineral acids.



TECHNICAL CHARACTERISTICS

| | | SUPERFLEX PUR |
|---|---|-----------------------------|
| Appearance | | Paste |
| Colour | | Grey |
| Density | EN 2811-1 | 1.30 kg/L |
| Shelf life in original packaging in a dry place | | 12 months |
| Workability characteristics | | |
| Pot life (*) | | <60 minutes |
| Waiting time - Film polymerization (*) | | minimum 2 days |
| Application temperature | | +5°C ÷ +40°C |
| Shore A Hardness Scale | | 15-25 |
| Application | | Manual |
| Performance characteristics | | Product performance |
| Resistance to flow | EN ISO 7390 | ≤ 3 mm |
| Loss of volume | EN ISO 10563 | ≤10% |
| Durability | EN ISO 8340 EN ISO 9047 EN ISO 10590 | Conform |
| Tensile strength (elongation 100%) | ISO 8339 | 0.15÷0.25 N/mm ² |
| Elongation, concentration | | 25% width of joint |
| Ultimate elongation | ISO 8339 | >250% |
| Thermal resistance on hardened film - Operating temperature | | -20°C ÷ +80°C |
| Fire behavior | EN 13501-1 | E |
| Sostanze pericolose | EN 15651 | Assessed |

Test conditions: temperature 23±2°C, 50±5% R.H. and air velocity in test area <0.2 m/s. These figures may vary depending on the specific conditions of the worksite: temperature, humidity, ventilation, absorbency of the base coat.

(*) The stated times may be longer or shorter as the temperature decreases or increases.

the numerous possible uses and the possible interference of conditions or elements beyond our control, we assume no responsibility regarding the results which are obtained. The purchasers, of their own accord and under their own responsibility, must establish the suitability of the product for the envisaged use.

The figures shown are average indicative figures relevant to current production and may be changed or updated by INDEX at any time without previous warning. The advice and technical information provided, is what results from our best knowledge regarding the properties and the use of the product. Considering

PACKAGING

SUPERFLEX PUR

310-ml Cartridge in boxes of 24 cartridges

SUPERFLEX PRIMER

1-litre tin

• FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE • IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS •

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