



Chem Coats (Pvt) Ltd.

FlexoChem 1

Single component polyurethane elastomeric joint sealant

DESCRIPTION

FlexoChem 1 is an elastomeric single component, low-modulus moisture-curing polyurethane sealant.

USES

FlexoChem 1 is designed for sealing of expansion and contraction joints, joints in water retaining structures, caulking of joints of facades, curtain wall panels, sealing of window and door joints, sealing of connecting joints between wall and windows. Typical substrates include concrete, brickwork, natural and synthetic stone, steel, aluminium, wood, ceramic tiles, and rigid plastic, such as UPVC and polycarbonate.

BENEFITS

- May be over painted with high quality PVA/acrylic paint.
- Low modulus design can tolerate high joint movement without rupturing or loss of adhesion.
- Good UV resistance.
- One-part easy to use.

PREPARATION OF JOINTS

Thorough preparation of joints is essential if a satisfactory seal is to be obtained. For surfaces of concrete, stone or masonry, all traces of dust, laitance, mould oil, any previous sealant and all other foreign material must be removed by mechanical grinding followed by blowing out with clean compressed air.

PRIMING OF JOINTS

Porous substrates, such as concrete and brick work, should be primed with **ChemPrime 326**. Drying time is 20 minutes minimum and 5 hours maximum. In case of excessively porous surfaces, a second coat should be applied.

BACK-UP MATERIAL

Suitable back-up materials must be used to adjust sealant depth in the joint. **ChemCord** is recommended.

MIXING

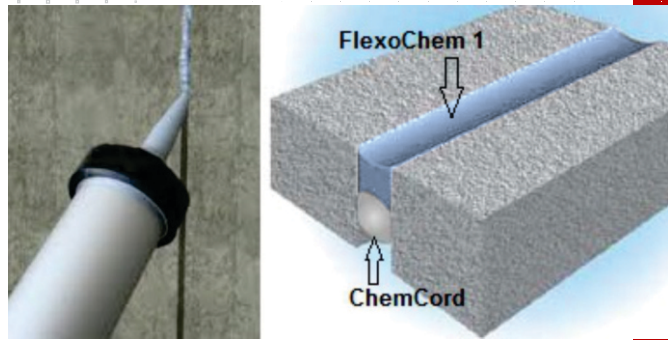
None required. **FlexoChem 1** must be used straight from the container.

APPLICATION

Application can be by hand or pressure-operated gun. It is essential to ensure complete contact between the sealant and the joint surfaces.

CLEANING

Tools and mixing equipment should be cleaned immediately after use, and before the material has set, with **ChemCoat brush cleaner** followed by washing with soap and water.



PAINING OVER SEALANT

It is not recommended that a flexible sealant be over-coated by less flexible coatings as joint movement will cause rupturing of the coating. A good quality water-based acrylic coating will dry over **FlexoChem 1**.

COVERAGE

| Coverage for estimating purpose | |
|---------------------------------|-------------|
| Joint size in mm | Liter/meter |
| 10 X 10 | 0.100 |
| 15 X 10 | 0.150 |
| 20 X 10 | 0.200 |
| 20 X 20 | 0.400 |
| 20 X 13 | 0.300 |
| 40 X 20 | 0.800 |

On average use 250 ml of primer (**ChemPrime 326**) with 06 liters of **FlexoChem 1**.

| TYPICAL PHYSICAL PROPERTIES OF WET MATERIAL | |
|---|-----------------------------|
| Density | 1.27 – 1.3g/cm ³ |
| Dilution | Do not dilute |
| Flash point | 250 ^o C |
| Standard colours | Grey |

| TYPICAL PHYSICAL PROPERTIES OF CURED MATERIAL | |
|---|--|
| Service temperature | -20 ^o C to +80 ^o C |
| Movement accommodation factor | Total movement must never exceed 25% of neutral width of joint |
| Elastic recover | 70% |
| Elongation @ break | >500% |
| Tack free time @ 25 ^o C and 50% RH | Approx.150 minutes |
| Cure time @ 25 ^o C | 24hours |



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PACKAGING

600 ml foil sausages (20 per carton).

HANDLING & STORAGE

This product has a shelf life of 12 months if kept in a dry cool place in the original packaging. In more extreme conditions this period might be shortened.

HEALTH & SAFETY

Uncured **FlexoChem 1** is toxic and should not be allowed contact with skin and eyes. The use of gloves and eye protection is advised. Splashes into eyes should be washed immediately with plenty of clean water and medical advice sought. Ensure the working area is well ventilated during application and drying. Always wear gloves when working with the material and avoid excessive inhalation and skin contact. Cured **FlexoChem 1** is inert and harmless.

IMPORTANT NOTE

The information given in this data sheet is based on current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept responsibility for any work carried out with our materials as we have no controls over methods of applications, site conditions etc. In view of the continuing research and development being undertaken in our laboratories we advise customers in their own interest to ensure that this data sheet has not been superseded by a more up-to-date publication. All products are sold subject to our standard conditions of sale which are available on request. Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact your local **Chem Coats** representative.

RANGE OF PRODUCTS

| | | |
|--|---|---|
| <u>WATERPROOFING SYSTEMS</u> <u>INDUSTRIAL FLOOR SURFACES</u> <u>PROTECTIVE COATINGS</u> | <u>PREPACKED REPAIR MORTARS</u> <u>CEMENTITIOUS & EPOXY GROUTS</u> <u>CONCRETE ADMIXTURES</u> | <u>SEALANTS</u> <u>CRACK INJECTION</u> <u>CONCRETE ADHESIVE</u> |
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