

Kemflex 1

One component polyurethane Joint sealant / adhesive

Description:

- **KEMFLEX 1** is a high performance, one component, moisture curing, elastic, non – sagging sealant, based on polyurethane resin.
- Complies with federal specification TT – S 00230 C and ASTM C -920.

Fields of Use:

- For vertical and horizontal joints.
- For expansion, contraction, movement and construction joints.
- Used as an elastic adhesive between a wide range of materials such as glass, ceramic, aluminum and other construction materials.
- Used in underwater structures.

Advantages:

- Saves time, effort and equipment.
- Jet fuel resistant and good chemical resistance.
- High resistance to aging and weathering.

Technical Data :(at 25 °C)

Density	1.45 ± 0.02 kg / l
Color	white, grey (other colors available upon requested)
Shore A hardness (ASTMD 2240)	20 - 25 (7 day)
Curing rate	1-2 mm/24h (depending on temp & RH)
Tack free to touch	105 minute
Elongation at break(DIN 53504)	> 300 % at 21 days
Tensile strength (DIN 53504):-	
At break	20.6 kg / cm ²
At 100 % elongation	3.7 kg / cm ²
At 50 % elongation	2.4 kg / cm ²
Recovery	99%
Movement capacity	± 25% of the average joint width .
Service temperature	- 30 ° C to 75 ° C
Application temperature	5 ° C - 35 ° C
Chemical resistance	dilute acids and alkaline (For more information consult technical department)
Rate of use(theoretical)	1 cartridge 300 cm ³ seals 1.5 m (joint 10 × 20mm)

JOINT DESIGN:

- All joints must be properly designed and dimensioned in accordance with the relevant standards.
- Guide value of the joint width to depth ratio for concrete surface:

Joint width	10 mm	15 mm	20 mm	25 mm	30 mm
Joint depth	10 mm	12 – 15 mm	17 mm	20 mm	25 mm
Joint length/ 600 ml ~	6 m	2.5 – 3 m	1.8 m	1.2 m	0.8 m
Joint length/ 300 ml ~	3 m	1.25 – 1.5 m	0.9 m	0.6 m	0.4 m

Directions for Use:

- Joint surfaces must be sound, clean, dry and free of oil and grease.
- Install backer rod to the required level.
- KEMFLEX 1 is usually used without primer, but for a weak and porous substrates prime with CETOKOL primer.
- Apply KEMFLEX 1 in a steady flow of sealing preceding the nozzle to avoid air entrapment.
Then tool sealant to ensure full contact with joint sides.
- Clean tools directly after use by KEMSOLVE 1.

Safety Precautions:

- Application should be carried out in well ventilated place.
- Gloves, protective clothing and eye goggles should be worn during application.
- Skin contaminations should be immediately cleaned with soap and plenty of water.
Don't use solvent.
- If the material is splashed into the eyes, these should be immediately washed with water and then report to an eye specialist.
- Do not eat or smoke during application.

Storage/Self life:

- 12 months under suitable storage conditions (dry & cold) in closed containers .

Packages:

- Cartridge 300 ± 10ml.
- Susage 600 ± 10ml.