

DESCRIPTION

CLEVERSEAL PU 2K; is a two component, self levelling pourable polyurethane joint sealant which has also excellent petroleum derivate resistant.

FEATURES

- Polyurethane based.
- Solvent free.
- Pourable sealing of large expansion joints.
- Easy application.
- Highly resistant to petroleum derivatives and other chemicals.
- It has excellent elongation properties, it provides permanent elasticity.

TYPICAL APPLICATIONS

- Concrete panel joints
- Precast panels,
- Vertical and horizontal dilatations,
- PVC, wood, metal aluminium and plastic surface joints
- Sealing of joints in water tanks and swimming pools
- Sealing of joints in Irrigation channels
- Sealing of roofs and terraces joints ,
- Large expansion construction Joints,
- Airports runway joints.

SURFACE PREPARATION

Joints should be thoroughly cleaned, and surface should be free from oil, grease, fuel, paraffin, silicone and other residues. Porous concrete surfaces, or heavily cracked application areas, should be sealed thoroughly to prevent air bubbles. Apply primer onto sound/firm substrate. If substrate is not sound / firm apply CLEVER PU PRIMER 300 for both damp concrete.

MIXING - THINNING

CLEVERSEAL PU 2K; is supplied in two parts in two different containers with their proper mixing ratio. Add the entire contents of the hardener to the base portion. After mixing the base portion, add the other component slowly with continued agitation. After the addition is complete, then continue mixing slowly several minutes. Add 20 Lt Component A to 20 Lt Component B, and mix using a low speed mixer until a homogenous mixture is achieved. The pot life is 30 - 35 minutes at 20 °C, depends on temperature.

APPLICATION

CLEVERSEAL PU 2K; Place the backer rod into the joints carefully at an appropriate depth. Application should be done by pouring into the joint. Apply CLEVERSEAL PU 2K into the joint ensuring that no air is trapped in the joint. Wide joints may require more than one application with the gun in order to ensure that the sealant is in full contact with the sides and bottom of the joint. Smoothen the sealant immediately after the application. Apply the sealant at a minimum depth of 10 mm, and ratio of width to depth is 2:1

CONSUMPTION

JOINT WIDTH (cm)	JOINT DEPTH (cm)	COVERAGE (KG/mt)
2	1	0,30
4	2	1,10
8	2	2,20

Please notice that these are theoretical consumptions. The rates may change depending on the shape and the width of the joints.

PRECAUTION

Apply in well-ventilated, no smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. Hands and eyes must be protected with gloves and protective glasses. In case of eye contact, rinse eyes with plenty of water for the material and consult a doctor immediately. Keep in mind that solvents are heavier than air so they creep on the floor. The MSDS (Material Safety Data Sheet) is available on request.

NOTE

This is not a specification and all information is given in good faith. Since conditions of use are beyond the manufacturer's control, information contained herein is without warranty, implied or otherwise, and final determination of the suitability of any information or material for the use contemplated, the manner of use and whether there is any infringement of patents is the sole responsibility of the user. Manufacturer does not assume any liability in connection with the use of the product relative to coverage, performance or injury. For application in special conditions, consult Clever Polymers for detailed recommendations. The new edition of the technical data sheet supersedes the previous technical information and renders it invalid.

SPECIFICATION DATA

Coating type	2K Pourable Polyurethane Sealant
Color	Grey
Density (20°C)	1,4kg/lt.
Packaging	8 kg + 4 Kg
Service Temperature	-40°C to + 80°C
Cure Rate (mm/day)	6 Hours
Application Temperature	+5 °C to +35°C
Thinner	Thinning is not recommended
Pot Life (25°C)	40 Minutes
Shelf Life	12 Months
Modulus 100% (ASTM 412 / EN-ISO 527-3)	4 N/mm ²
Hardness ASTM D2240, DIN 53505, ISO R 868	± 25 (Shore A)
Elongation Percentage (23°C)(ASTM D 412)	≥ % 500
Stretching (DIN 52458)	> 80
QUV (ASTM G53)	1000 hours
Tack Free Time (25°C)	2 Hours
Adherence on Concrete (23°C)(ASTM D 903)	≥ 2 N/mm ²
Method of application	Pouring
Drying Time Potlife and drying time depends on temperature and quantities mixed	23°C, %55 RH Touch Dry Time: 5 Hrs Curing: 5-12 Hours Fully Cured: 7 Days

