PU SEAL 2K

TWO COMPONENT PU JOINT SEALANT

Description

PU SEAL 2K is a two-component joint sealant, based on polyurethane resins. When mixed, the two components are vulcanised to an elastic and cohesive mass.
Joints or fabrications formed with this sealant can be expected to extend and compress a total of (± 25%) of original joint dimensions.
PU SEAL 2K is virtually unaffected by normal weathering conditions such as rain, sunlight, snow, sleet, ultra-violet radiation, ozone, atmospheric contamination and pollution. Its excellent weather ability enables it to retain its original properties after years of exposure. Its physical properties remain relatively unchanged over a wide temperature range (-20˚C to 70˚C).

Uses

- For sealing floor joints.
- Granite, sandstone and marble pointing GRC, Fiberglass & Specialty panel systems.
- Metal curtain wall facades.
- Potable water tanks.
- Sealing gaps and adhering facade and cladding panels to various building materials.
- Sealing construction and expansion joints.
  For sealing of concrete joints in airport runways

Advantages

- Two-component
- Provides a chemical cure
- Pre-pigmented
- Self-levelling for easy application to horizontal concrete
- Traffic-bearing
- Has the capability of +50% joint movement after curing

Standard Compliance

It conforms to EN 14187: 2003, BS 5212, BS 4254 ASTM C 920, PPM 400 Hardness Test

Technical Data

Appearance	Flowable viscous paste
Type of cure	Chemical cure
Type	Two component
Shore-A-hardness	Approx. 25
Slump resistance	Very good
Tensile strength	Approx. 7-10 Mpa (at 100% elongation)
Elongation %	Approx. 450 %
Movement accommodation	25%
Pot life	Approx. 90 mint
Recovery rate at 100% extension	90%
Chemical resistance	Resistance to dil.acids,alkalis,oils, Fuels etc.
Application temperature	+10˚C to +50˚C (substrate)
Temperature resistance	-20˚C to +70˚C
Skin formation: after approx	50 minutes@ 27˚C

Application Methodology

Surface Preparation:

The joint walls should be clean and free of bond-breaking materials (such as dirt, wax, form-release compounds, oil, tar, etc.).
Press a backer rod into each joint to allow a depth that is half the thickness of the joint.

Mixing:

Before product use, take appropriate safety precautions. Refer to the Safety
Data Sheet for details.

1. Pre-stir Part A mechanically with a drill and paint mixer.
2. Cut the Part B pouch and slowly add its contents to Part A.
3. Mix continuously until a homogenous color and consistency are achieved.

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Application:

- The two components, packaged at a fixed ratio by weight, need to be thoroughly mixed with the use of a proper mixer, e.g. a helical spiral mixer attached to a drill. Mixing should continue until the mixture is completely homogenized. Since the two components are of different color (A: white - B: black), the homogenization can be visually checked (when the mixture obtains a homogeneous grey color, without darker or lighter spots or streaks, mixing is complete).
- The mixed sealant is applied into the joint by means of a special gun or spatula (for minor applications).
- The surface of the uncured sealant is smoothed with a spatula, so as to form a concave meniscus.

Consumption

1.45 kg/l of joint volume.
Gap size

Packaging

PU SEAL 2K is supplied in packaging (A+B) of Kg
Component A(Base)- 3.2 Kg
Component B(Hardener)- 0.8 Kg

Cleaning

Tools and equipment can be easily cleaned with solvent such as xylene, toluene, MEK and acetone.

Storage & Shelf life

PU SEAL 2K has a minimum shelf life of 12 months when stored under room temperatures. It should be protected from extreme temperatures and Preferably stored in shade ecological, toxicological and other safety-related data.

Safety Precautions

User must read Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical.

Fire

PU SEAL 2K is non-flammable.

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