CLEVERSEAL PU 35

Single Component, High Modulus, Polyurethane Joint Sealant

DESCRIPTION

CLEVERSEAL PU 35 is a single component, high modulus, polyurethane joint sealant curing with humidity in the air.

TYPICAL APPLICATIONS

- As joint filler,
- The dilatation of concrete layers,
- Water tanks and swimming pools,
- Joints of irrigation channels,
- Roof and terrace dilatations,
- Horizontal and vertical dilatation joints.

FEATURES AND ADVANTAGES

- Bonds perfectly to all kinds of surfaces with or without primer.
- It is easily applied and its surface can be smoothed.
- It has excellent chemical resistance.
- It is suitable for the waterproofing of joint systems in water tanks and swimming pools treated with chemicals.
- Can be painted.
- It is non-sagging, thixotropic.
- Waterproofs after drying.
- 25% mobility.
- No air bubbles occur during curing.

APPLICATION PROCEDURE

• SURFACE PREPARATION

The joint should be cleaned before the application. Make sure that the joint should be dry. The factors that will prevent or weaken the adhesion, such as oil, grease, fuel, paraffin and silicone in the joint must be completely removed and cleaned. If the bottom of the joint is open, a polyethylene backing rod should be used to create an application area with a depth equal to half the joint width (width 2 / depth 1).

• PRIMING

Suitable primer should be chosen in accordance with the surface and climatic conditions. It is recommended to use PU PRIMER 200 as primer on porous surfaces, EPOXY PRIMER WB for damp surfaces.

• APPLICATION

Before application, CLEVER PU INJECTION should be mixed properly. Backing rod is placed in the joint to prevent air flow. The package of sealant is cut from the far end and placed in the application gun. The injector head is cut and placed in the gun so that the appropriate and correct amount of flow is obtained. For wide joints it is recommended to apply in multiple layer to reduce the risks of air entrapment. It is necessary to apply more than one application with a gun in order to be in contact with the edges and bases in wide joints. It is necessary to tool the material immediately after the application.

APPLICATION REMARKS

- Not recommended for unstable surfaces.
- It is not used for waterproofing of swimming pools with chemically treated waters.

CONSUMPTION

Joint Width	Joint Depth	Joint Depth (600ml Sausage/m)
10 mm	5 mm	6
20 mm	10 mm	3
30 mm	15 mm	1,3

The information in the sample consumption table is theoretical. The consumption may vary depending on the joint.

CLEANING

After the application, all tools should be cleaned with CLEVER 001.

PACKAGING AND COLOR

The product is white or grey in 600ml aluminum sausage packaging.

STORAGE AND SHELF LIFE

The product can be stored for a maximum of 12 months in its unopened original package at temperatures between + 5°C and +25°C. Opened product should be used as soon as possible.

PRECAUTIONS

The product should be used in well ventilated environments. The product should not be contacted with naked fires. Smoking should not be allowed during application. Protective gloves and masks should be used for hands and eyes during application. In case of contact of the material with eyes, wash immediately with plenty of water. For more detailed information, ask for the Safety Data Sheet (MSDS) from CLEVER POLYMERS technical department.

TECHNICAL DATA		
QUALIFICATION	**METHOD**	**FEATURE**
Coating Type	Clever Lab.	Single Component Polyurethane Sealant
Form	Clever Lab.	Thixotropic Paste
Density	ASTM D 1475 / EN ISO 2811-1 (+20C)	1,25 ± 0,05 gr/cm^3
Curing Rate	Clever Lab.	2mm / Day
100% Stretch Modulus	ASTM D-412	0,35 - 0,40 N/mm^2
Joint Movement Capability	Clever Lab.	25%
Elastic Recovery	Clever Lab.	> 60
Hardness	ASTM D2240, DIN 53505, EN ISO R868	Shore A 35 (± 5)
Elongation	ASTM D 412 (+23°C)	> 600%
Adhesion to Concrete	TSE EN 1542 (+23°C)	> 1.5 N / mm^2
Take Free Time	25°C / 55% RH	60 - 90 Minutes
Drying Time	Clever Lab.	2mm / 24 Hours