SOLIDKOTE JOINTSEALER LV 100

Twin Pack Semi-Rigid Polyurethane Pourable Jointsealer

Twin pack, low viscosity, pourable, polyurethane sealing compound designed to form a durable, rubber like seal. It is semi-rigid and elastic when cured which reinforces the joint and allows for movement. Jointsealer LV100 may be used with common substrates such as concrete, plaster, brick and stone. The cured product exhibits superior resistance to abrasion and chemicals such as acids and alkalis. Due to its high water resistance and adhesion along with resistance to biodegradation it forms the ideal sealant.

TECHNICAL DETAILS	
Appearance	Thixotropic Liquid
Colours	Mid Grey, Black, Beige, and custom on request
100% Modulus (MPa)	0.4 - 0.5
Tensile Strength (MPa)	1.10 – 1.30
Elongation at break (%)	40-50
Pot Life (min)	25-30
Solids Content	100%
Density (Cured)	1.4
Initial cure	4-6 hours (dependent on thickness, % RH and temperature)
Full Cure	4-5 days
Application Temperature	5 - 35°C
Service Temperature	60°C, dry
Storage	<25°C
Shore A Hardness	60-80
Chemical Resistance	Dilute acids, dilute alkalis and general chemicals
Pack Size	1L and 5L kits
Cleaning	Solidkote 503 PU Thinner

APPLICATIONS

Flexible seal for horizontal joints which are subject to continuous expansion and contraction, General industrial flooring, Food & Beverage industry, Water retaining structures, Sewerage treatment plants. A degree of colour change with time is to be expected. It is not recommended for use in water retaining structures.

SAFETY

Contact with the skin should be avoided by wearing gloves, eye protection and protective clothing. In case of eye contact wash well and obtain medical advice. The product contains a low level of free isocyanate.

DIRECTIONS

PREPARATION

The correct preparation of the joint faces is absolutely essential to ensure satisfactory performance of the sealant. All surfaces should be dry and sound, and laitance or surface contamination should be removed by thorough wire brushing, grinding or grit blasting. Vacuum or blow with compressed air to ensure thorough removal of dust. Metal surfaces should be free of mill scale and rust and mild steel treated with a suitable Solidguard 75 EPZ anticorrosive epoxy primer (See TDS).

COVERAGE ESTIMATION 2m (Linear metres) based on dimensions of: 10mm (wide) x 50mm (depth) per 1L

APPLICATION

Jointsealer LV100 shall be installed full joint depth in saw-cut joints and/or a minimum of 50mm deep in thru-slab construction joints. After full cure the excess crown will be shaved off, resulting in a profile flush with the floor surface. Contractor will perform a sample application that is acceptable to the owner. This approved sample will be the standard for the project. Joint faces should be parallel and the joint width should be at least four times the maximum anticipated movement. When placing the sealant the joint opening should be central to its maximum compression/expansion cycle.

Masking tape both sides of the joint to be filled. The mixed sealant has a pourable, flowing consistency and may be poured directly into the prepared joint or it may be filled into a closed barrel caulking gun. Ensure a smooth continuous flow of material. Fill the joint from the bottom up and ensure that there is contact between the sealant and joint surfaces. To assist in removing air bubbles and ensure contact of the sealant with the walls of the joint the sealant should be tooled to a smooth finish using a rounded spatula.

BACKING ROD / SILICA SAND

To ensure proper movement of the joint a backing rod or silica sand must be installed at the base of the joint. Where a backing material such as polyethylene foam rod is used to ensure the correct joint geometry a bond breaking tape is not required. For water retaining structures care must be taken to comply with the design requirements.

PRIMING

For water retaining structures, porous or friable surfaces or where severe conditions are expected use Solidkote 110 epoxy primer. Mix base and activator thoroughly and apply the mixed material with a brush to the joint faces ensuring complete coverage. Particular attention should be paid to any voids and hollows. Allow at least 1 hour for tack to occur and apply the sealant. After approximately 3 hours or once the primer has lost its tack, re-prime. Protect the primed surface from dust and dirt, which could contaminate and interfere with the adhesion of the sealant.

MIXING

Jointsealer LV100 is supplied in a 1L or 5L bucket (Part A) with corresponding activator (Part B) packaged in a plastic bottle. Transfer the total quantity of activator into the base component and mix thoroughly using a slow speed electric drill fitted with a flat blade stirrer. Scrape down the sides of the can and the base and remix until the colour is uniform. Thorough mixing is essential and should take 2 to 5 minutes. Ensure not to mix vigorously as this will entrain air bubbles and speed up the chemical reaction.

CLEANING

Clean all tools and equipment immediately after use with a PU Thinners, as the cured material is very difficult to remove.

WATCH POINTS

NOTE: No other solvents should be used in the cleaning or smoothing of the Joint Sealer that has been applied except a light damp cloth with clean water.

WARRANTY

Technical Finishes products are manufactured under high quality standards and are warranted against defective materials and are sold subject to standard Terms and Conditions of Sale, copies of which can be obtained upon request. Technical Finishes deals with approved applicators and carry a back to back warranty with these clients. Technical Finishes cannot be held responsible for the workmanship in surface preparation and application of our products, it is understood that the approved contractor will guarantee such workmanship and application. It is vital that the application is done in accordance to our specification.