JOINT SEALER 299 LV

Twin Pack Polyurethane Joint Sealing Compound

A twin pack polyurethane sealing compound designed to form a durable rubber like seal. It is highly elastic and is able to withstand continuous extension and recovery. Joint Sealer 299 LV may be used with common substrates such as concrete, plaster, brick and stone. The cured product exhibits superior resistance to abrasion, UV radiation and ozone making it excellent exterior use. Due to its high water resistance and adhesion along with resistance to biodegradation it forms the ideal sealant for use in water retaining structures and sewerage treatment plants.

TECHNICAL DETAILS	
Solids Content	100 %
Mixing Ratio	As supplied
S.G	1.45
Pot Life	60 minutes
Tack Free	3 days
Service Temp.	- 10 to 90 °C
Application Temp.	5 to 35 °C
Hardness	+ / - 25 Shore A
Full Cure	7 Days
Chemical Resistance	Most dilute chemicals. Not resistant to chlorinated water.
Movement Accommodation	+ - 25 %
Colour Range	Against order
Packaging	2 L
Cleaning	Solidkote 503

APPLICATIONS

Water and weatherproof flexible seal for both horizontal and vertical moving joints which are subject to continuous expansion and contraction.

DIRECTIONS

SURFACE PREPARATION

The correct preparation of the joint faces is absolutely essential to the 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 anticorrosive primer.

JOINT DESIGN

The minimum width and depth of a joint should be 6 by 6 mm. Horizontal joints, where possible, should be at least 12 mm and not more than 25 mm deep. The depth of the joint should never exceed its width. Except in the case of water retaining structures and where shear movement is anticipated the ratio of width to depth of 2:1 should if possible be maintained. This ratio provides the optimum geometry to allow movement to occur within the joint without placing excessive force on the joint faces. 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.

BACKING ROD / BOND BREAKER

To ensure proper movement of the joint a bond breaker must be used 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.

APPLICATION

Fill the sealant into a closed barrel gun using a follow plate or small trowel. Gun the sealant into the joint using a continuous squeezing of the trigger to 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. A soapy solution may be used to aid the process. Remove any masking tape applied before cure has commenced.

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 45 minutes 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 coat it and interfere with the adhesion of the sealant.

MIXING

A 2 L kit of Joint Sealer 299 LV is supplied in a 2.5 L plug lid can. The activator is packaged in a plastic bag, which rests on top of the sealant base separated from it by a plastic sheet. Remove the plastic separating sheet, transfer the total quantity of activator onto 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 and free from streaks. Thorough mixing is essential and should take 5 to 10 minutes.

CLEANING

Clean all equipment immediately after use with Solidkote 503 PU Thinners. Once the coating has polymerized it may only be removed mechanically.

COVERAGE ESTIMATION

	JOINT DEPTH (mm)						
mm		6	12	20	25	30	40
	6	56	28	17	13	11	8
	12	28	14	8	7	6	4
	20	17	8	5	4	3	3
	25	13	7	4	3	3	2
	40	11	6	3	3	2	2

Approx. length of joint in metres / 2 L kit

HEALTH AND SAFETY

Contact with skin and eyes should be avoided by wearing protective clothing including safety goggles, gloves and overalls. In case of eye contact, flush well with clean water and obtain medical advice.

Please read Safety Data Sheet and specific health and safety data for this product provided in compliance with the requirements of OHSA No.85 of 1993. The finished system is not hazardous to health or the environment.

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.