

PU FLEX 122SL

Polyurethane Waterproofing Membrane

GENERAL DESCRIPTION

AXEL PU FLEX 122SL is double component cold applied levelling polyurethane waterproofing which can also be used as a modified sealant. AXEL PU FLEX 122SL is cross-linked with other binders to form a tough and durable sealant for horizontal application joints with good resistance to many chemicals and light traffic. AXEL PU FLEX 122SL is also used as a sealant coating on concrete surfaces as in flat roof or timber joint bridging. One coating shall be done at 1.2kg/m² to 1.5kg/m² to form a waterproofing sealant layer to block any positive water penetration.

RECOMMENDED USES

- * Car parks, runways and garage workshop
- * Car wash bays
- * Factory and storage warehouse
- * Depots and shipyards
- * Construction cold joints at concrete or screed panels
- * Roads (Note: Joints should be approximately 3mm below finish road surface)

CHARACTERISTICS & ADVANTAGES

- * Resilient
- * Easy to work
- * Cold applied
- * Flexible
- * Economical

PACKING

30 kg per set (Part A: 20 kg/pail Part B: 10 kg/pail)

COLOURS

Grey

COVERAGE

Joint sealant:

1kg AXEL PU FLEX122 SL: ~ 0.75 litres

- * 10mm (D) x 10mm (W) = 7.5 m (L)
- * 15mm (D) x 10mm (W) = 5.0 m (L)
- * 20mm (D) x 15mm (W) = 2.5 m (L)
- * 25mm (D) x 20mm (W) = 1.5 m (L)

Waterproofing coating:

* Waterproofing coating application is 1.2kg/m² to 1.5kg/m², the coating shall be done in thin coats in multi coats of 2 to 3 times.



STORAGE

Store in a dry, cool and shaded place.

SURFACE PREPARATION

- * Ensure that the butt joint concrete is sound and free from cracks.
- * Repair the joints or any cracks if necessary with **AXEL EMBED 301R** or **AXEL MORTAR 303MC** for higher requirement.
- * Clean all joints & remove any loose mud or backing boards.
- * Make sure surface is clean and free from any oil, grease and contaminants.
- * Cement laitance, loose particles, cured membranes, etc. must be removed.
- * Make sure the surface is dry before apply. New concrete structures should be dry for at least 28 days

METHOD OF APPLICATION

Joint sealant:

- * Insert backer rod to prepared joint with required depth. Ensure that the joints are not exceeding 20mm.
- * Mix Part A and B of **AXEL PU FLEX 122SL** homogenously with mechanical mixer and pour the sealant into the groove. (Masking may be necessary for a tidy work)
- * Allow the sealant to dry overnight.

Waterproofing coating:

- * Mix Part A and B of **AXEL PU FLEX 122SL** homogenously with mechanical mixer
- * Evenly applied across the surface with a roller or brush.
- * A minimum of two coats are recommended and shall be done in a criss-cross manner between coats.
- * Apply second layer after the first layer has cured tack free. NOT more than 48 hours application between coats.
- * Allow at least 24 hours curing before open for foot traffic.

Notes:

- * Over stirring should be avoided, in order to prevent air entrapment in the material.
- * Application temperature min 8 °C – max 35 °C. Low or high temperature will affect material curing rate.
- * NOT apply on over damp/wet, over moisture or rising dampness conditions to minimize blistering issue.
- * Apply suitable primer if necessary for extremely porous substrate or special substrates.
- * **AXEL PU FLEX 122SL** is not defined as a UV resistant product. Discoloration might occur due to exposure to UV radiation but will not affect its mechanical properties. If necessary, apply a suitable protective coating for optimum result.
- * Area with long term water load is not recommended using **AXEL PU FLEX 122SL**.
- * **AXEL PU FLEX 122SL** will be harden and cannot be kept once Part A and Part B are mixed together. Thus, mixing according to required usage to prevent material wastage.
- * Consult Safety Data Sheet (SDS) or refer to the packaging for safety use and precautions instruction.

CLEANING OF TOOLS

Clean all tools and application equipment with solvent immediately after use. Hardened or cured material can only be mechanically removed.

TECHNICAL SPECIFICATIONS

No. of component	Two
Specific gravity	1.2-1.4 kg/l
Mixing ratio	4 : 1 (A:B)
Appearance/colour	Grey
Hardness Shore A	39 HS
Tensile strength (kgf/cm ²)	34
Tear strength (kgf/cm)	11
Elongation (%)	> 300
100% elastic Modulus (kgf/cm ²)	8
Working time	up to 1 hours
Application temperature	8-35 C
Curing time	24 hours @ 25° C

SHELF LIFE

12 months from the date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions.

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