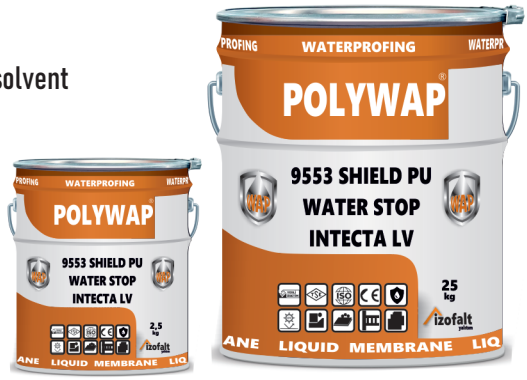
POLYWAP 9553 SHIELD PU WATER STOP INJECTA LV E-CATALOG

SINGLE COMPONENT, SOLVENT FREE INJECTION RESIN



DESCRIPTION FOR IT

It is a single component, polyurethane based, hydrophobic injection resin that is solvent free, odorless, and fast curing. Possessing a low viscosity, viscoelastic nature, it reacts with water to form an elastic plug. It has been developed for sealing and waterproofing cracks and joints in concrete surfaces. It effectively stops water seepage or leaks and, thanks to its low viscosity, penetrates deeply into capillary cracks. It is recommended for use on concrete elements subject to structural movement. The foam formed within the joint maintains a stable volumetric and structural integrity; its physical properties do not deteriorate through shrinkage or loss of volume.

AREAS OF USE

It is used in underground structures such as foundations and garages, in tunnels and underpasses, in wastewater and sewage systems; and in reservoirs, waterways, and dams.

ADVANTAGES

It performs effectively in sealing cracks and voids in concrete, particularly joints. It has low viscosity and penetrates deeply with minimal pressure, forming an elastic and completely hydrophobic foam. Being a single component product, it is easy to apply and has a long pot life. It offers high resistance to fungi and microorganisms. It is environmentally friendly and user safe: free from solvent odors and propellant gases. It is safe to store, transport, and use. It complies with VOC regulations and is free from TDI (Toluene Diisocyanate). As it contains no odors, fillers, or solvents, it is resistant to hydrolysis and suitable for use with potable water.

TOOLS USED

Hand mixer, grout pump, brush, roller, trowel.

APPLICATION

First, mix the material with POLYWAP 9553 SHIELD PU WATER STOP INJECTA LV Catalyst for approximately one minute until the mixture is homogeneous. The catalyst ratio varies between 8% and 10%, depending on the moisture and temperature conditions of the substrate .Ensure that the mixture does not come into contact with water prior to application. Apply using a single component injection pump. Gradually increase the pumping pressure from the minimum setting until the desired level is reached. The injection volume generally depends on the size of the void to be filled and the condition of the substrate. After mixing, a thin skin may form on the surface due to the reaction with moisture. This skin can be pierced with a sharp object or removed, allowing the underlying mixture to be used.

PACKAGING

27.5 kg Set: 25 kg Resin + 2.5 kg Catalyst

STANDARD

EN 1504-2:2004 CE Certificate

CLEANING

After the injection process, a suitable cleaning agent that does not contain water, or oil, should be pumped through the hose lines and the pump.

TECHNICAL SPECIFICATIONS

QUALIFICATION	FEATURE
Appearance (Resin) / (Catalyst)	Light yellow / Transparent
Viscosity (Brookfield)	100-200 Cps.
Solids content rate	%100
Specific gravity	1.05 gr/cm3
Expansion rate with 10% catalyst	30-40 Layers
Pot life of the mixture with 10% catalyst	10 hours
Swelling ratio in the 1:1 resin-water reaction	20-30 Floors
Volumetric change after curing	%0