POLYWAP 9552 SHIELD PU WTF 2K – E TECHNICAL SPECIFICATIONS

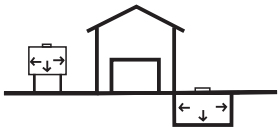
TWO COMPONENT, POLYURETHANE BASED, SOLVENT FREE LIQUID WATERPROFING MEMBRANE

DESCRIPTION FOR IT

It is a thixotropic coating material made from high quality, two component elastomeric polyurethane resins. It is solvent free. Upon polymerization, it forms a strong, elastic, and hydrophobic film. It has been specifically developed for the waterproofing of water tanks and potable water reservoirs. POLYWAP 9552 SHIELD PU WTF 2K-E also provides a seamless, monolithic coating on surfaces featuring complex details such as chimneys, antennas, and pipes. It is applied in two coats using a roller, with a consumption rate of 700 g/m² per coat. For tank floors, a single-coat application with a consumption rate of 1400 g/m² is sufficient.

AREAS OF USE

It is used for the waterproofing of water tanks made of concrete, steel, or other materials including prefabricated concrete tanks and drinking water tanks as well as tanks subject to contraction and expansion movements.



ADVANTAGES

It adheres perfectly to almost any type of surface. Being solvent free, it can be easily applied in enclosed spaces. It possesses excellent hydrophobic properties and resistance to hydrolysis. It performs well across a wide temperature range, with a thermal resistance of -40°C to 90°C. It exhibits effective chemical resistance. It is certified according to the latest European Union standards for drinking water tanks. It offers the ideal cost performance solution for water tanks. Specialized primers, topcoats, and coloring pastes are available.

APPLICATION CONDITIONS

Application should not be carried out in very hot or very humid weather. The ambient temperature during application must be between +5°C and +30°C. It should not be applied to surfaces that are thawing or frozen, or to surfaces at risk of freezing within 24 hours. Old mineral surfaces that are dusting/crumbling must be repaired (using Polywap İZ K 6000) prior to application.

TOOLS USED

Hand mixer, brush, roller.

SURFACE PREPARATION

If the surface to be applied is new, it must be free of residues such as cement residue and loose parts, oil, dirt, rust, etc. that prevent adhesion. Free from algae and dust; It must be clean, smooth, solid and not exposed to frost. Internal corners WAP TH – 602 repair mortar. The outer corners should be rounded by trimming with mechanical methods. Perforated, broken or porous surfaces, It should be repaired in order to smooth the surface and prevent the formation of air bubbles.

APPLICATION

Mix equal amounts of the two components using a low speed mixer (300 rpm) and apply immediately. The pot life of the mixture is 30–45 minutes at 20°C. Apply the material using a roller and brush. To extend the pot life, keep the container holding the mixture in a cool place away from direct sunlight. Pour the mixed product onto the floor to allow it to spread out, then distribute it; alternatively, pour the mixed product into a separate, wide, shallow container.

CONSUMPTION

For each coat: 700 g/m²
Minimum total consumption: 1.4 kg/m²

TOOL CLEANING

Clean the tools and equipment first with a paper towel, then wipe them with solvent. The rollers cannot be reused.

PACKAGING

9 kg Set (Component A: 1.5 kg, Component B: 7.5 kg) and 24 kg Set (Component A: 4 kg, Component B: 20 kg)

STORAGE AND SHELF LIFE

The shelf life is 12 months from the date of manufacture, provided the product is stored in a dry, moisture free environment away from direct sunlight and the packaging remains undamaged and unopened. Packaging must be protected from freezing temperatures and excessive heat. Pallets must not be stacked on top of each other during transport and storage.

STANDARD

EN 1504-2:2004 CE Certificate

TECHNICAL SPECIFICATIONS

QUALIFICATION	UNIT	METHOD	FEATURE
Service temperature	°C	-	-40 to 90
Hardness	Shore A	ASTM D2240 / DIN 53505	> 80
Elongation at break	%	ASTM D412	> 200
Tensile strength	Kg/cm2	ASTM D412	300
Water absorption	%	DIN 53495	< 0.5
Adhesion to concrete	Kg/cm2	ASTM D4541	20

WARNINGS AND RECOMMENDATIONS

Only the product's own liquid should be used when preparing the mixture; absolutely no foreign substances should be added. Furthermore, methane gas seeping from the soil may have accumulated inside the tanks. Precautions must be taken with this possibility always in mind.

SAFETY WARNINGS

Ensure adequate ventilation and implement health precautions when using in enclosed spaces. Do not leave the container lid open. Do not expose to direct sunlight or heat. Keep out of reach of children. Always use appropriate safety equipment such as masks, gloves, and goggles. Protect your eyes and face. Avoid contact with eyes and skin. In case of eye contact, rinse immediately with plenty of water and consult a specialist. Refer to the Material Safety Data Sheet for detailed safety information.

LEGAL DISCLAIMER

İZOFALT Insulation Construction Textile Ind. And Trade Ltd. Co. İs not responsible for application errors that may occur if the product is used for purposes other than intended or if the above conditions are not complied with.