

POLYELAST 2K



DESCRIPTION



POLYELAST 2K is a water-based, two-component ultra-elastic liquid water-proofing membrane that consists of a resin liquid component reinforced with super elastomeric polymer additives that increase elasticity and tensile strength, and a powder component reinforced with various chemicals.

- In new constructions, concrete surfaces must gain strength for at least 28 days.
- In order to ensure good adhesion, surfaces should be primed with POLYASTAR before the application at a consumption amount of 300 - 500 gr/m² depending on the condition of the surface. While applying the primer, due attention should be paid not to cause ponding, and if there is ponding, it should be spread with a brush.
- Surfaces with excessive absorption and dusting behaviour should be primed with POLYASTAR once or twice until the surface hardens.

FIELDS OF USAGE



- It is used on all horizontal and vertical surfaces such as concrete, screed, plaster, brick, wood and metal that are exposed to water and moisture.
- With 180 gr of geotextile felt, it is used in green roof and swimming pool insulation applications.
- It is used in the waterproofing of bases and basements of buildings.
- It is used in the waterproofing of terraces, curtain walls and retaining walls, underground parking floors, and under-tile wet areas such as in bathrooms, kitchens and toilets.
- It is used on all mineral surfaces.
- It is used in rain streams. It is used in canals and flumes.
- It is used in architectural structures such as highways, bridges and viaducts.
- It is used with reinforcements such as polyester felt, insulation mesh and fibreglass on cracked surfaces or in insulation applications that need to resist higher pressure water.

APPLICATION



- The powder in the package is slowly poured into the liquid in the bucket, and the mixture is mixed with a low-speed mixer for about three or four minutes until there are no lumps or subsidence. After resting it for three minutes, it is mixed for another two minutes.
- It is applied with an insulation brush, roller, trowel or insulation pump.
- A hand brush is used in delicate areas and corners.
- The second coat should not be applied before the first coat is completely dry. The second coat should be applied perpendicular to the first coat.
- It dries in about 6-8 hours, depending on weather conditions.
- It should not be applied in rainy weather and temperatures below +5°C.

NOTE :

Please note that the concrete quality on surfaces that are constantly exposed to pressure water must comply with TS-EN 206. Please consult the technical service of Marof Yapı for application on different floors.

CONSUMPTION



- For moisture- and damp-proof surfaces: 2 kg/m²
- For surfaces with low water pressure: 3 kg/m²
- For surfaces with high water pressure: 4 kg/m²
- Recommended usage amount on each coating: 1 kg/m²

PREPARING THE SURFACE FOR APPLICATION



- The application surface must be fully cleaned off dust, rust, dirt and oil, and loose parts should be scraped.
- Spikes should be rounded, surface should be washed with, if possible, high pressure water and dried until it becomes unsaturated with water. The surface must be protected from frost.
- Open areas such as horizontal and vertical joints, as well as cracks and pits larger than 2 mm., other than the capillary cracks, should be repaired with POLYELAST SCREED 2K.

AFTER APPLICATION



- Soil filling should not be done without a protective coating on the base and curtain walls on which POLYELAST 2K has been applied. There should be a drainage system, especially in underground basement floor applications.
- The applied surfaces should be protected against frost for 2-3 days.

- Surfaces exposed to UV rays such as in terraces where POLYELAST 2K is applied should be covered with a suitable screed or coating after the full drying period. .

SHELF LIFE AND STORAGE

- Shelf life is at least 12 months under proper storage conditions.
- At the time of stocking and dispatch, the first product that arrives should be used before those that arrive at a later time.
- Store in a dry and cool environment (at temperatures above +5 °C), unopened in its original package.
- Do not leave it in the sun. Protect from frost.
- Do not stack more than three buckets on top of each other.

TOOL CLEANING

- Tools should be washed with plenty of water immediately after use

PACKAGING

- 16 kg. plastic bucket (12 kg. liquid + 4 kg. powder)
- 24 kg. plastic bucket (18 kg. liquid + 6 kg. powder)
- 32 kg. plastic bucket (24 kg. liquid + 8 kg. powder)

QUALITY STANDARDS

TS EN 1504-2

TECHNICAL SPECIFICATIONS

| | |
|------------------------------------|--|
| Content of the Mixture | Liquid content : Super elastomeric polymer resin |
| Dust component | Cement-based mix |
| Colour | The colour after mixing is grey. |
| Consistency | Flowable Viscous |
| Mixture Density | 1,250 -1,300 gr/cm ³ |
| Application Temperature | +5 °C ile +35 °C |
| Solid Content Ratio of the Mixture | > 60% |
| Drying Time | Touching : 2 - 4 hours |
| Full drying | 6 - 8 hours (each coating) |
| Test | 8 days |
| Rain resistance | 48 hours |
| Elasticity | 300 % |
| Pot Life | 1,5-2 hours |
| Temperature Resistance | Approximately, 90 °C |
| Bond Strength | > 2.5 N/mm ² |
| Pull-off Resistance | > 2.5 N/mm ² |

CAUTION

MAROF YAPI is not responsible for any defects or errors that may arise if the product is used on a surface or for properties other than described above.