### **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.

#### **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.

#### 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.

#### 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.

- 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/m<sup>2</sup> 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.

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#### **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.



#### CONSUMPTION

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



#### **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.



## **POLYELAST 2 K**

Content of the Mixture

**Dust component** 

Colour

Consistency

the Mixture

**Drying Time** 

Full drying

Elasticity

Pot Life

Rain resistance

**Bond Strength** 

Pull-off Resistance

Temperature Resistance

Test

Mixture Density

**Application Temperature** 

Solid Content Ratio of

- 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..



#### **TECHNICAL SPECIFICATIONS**

Liquid content: Super elastomeric

The colour after mixing is grey.

polymer resin

Cement-based mix

Flowable Viscous

+5 °C ile +35 °C

> 60%

8 days

300 %

48 hours

1,5-2 hours

> 2.5 N/mm<sup>2</sup>

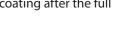
> 2.5 N/mm<sup>2</sup>

1,250 -1,300 gr/cm<sup>3</sup>

Touching: 2 - 4 hours

Approximately, 90 °C

6 - 8 hours (each coating)





### 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

#### **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.

