



TECNO 2K PLUS 3024

Description:

Highly flexible waterproofing mortar composed of an emulsion polymer-based liquid component and a cementitious powder component containing additives that improve waterproofing and workability. It is resistant to salts and suitable for interior and exterior applications.

Usage Areas:

Waterproofing of swimming pools, hammams, bathrooms, showers, balconies, terraces before laying ceramic tiles.

Waterproofing of concrete basins for potable water storage.

Waterproofing of underground concrete elements, including foundations, retaining walls, and basement walls.

Waterproofing of surfaces exposed to deformation, pedestrian and load traffic.

Protection against seawater and de-icing salts.

Properties:

Suitable for waterproofing before tiling or screeding. Approved for contact with potable water tanks.

Excellent bonding on all concrete and masonry surfaces.

Highly flexible, non-corrosive, and resistant to freeze-thaw cycles.

Prevents carbonation in concrete.

Easy to apply by brush, roller, or trowel.

Application:

Pour 10 liters of liquid component into a clean container.

Slowly add 20 kg powder while mixing at low speed to obtain a homogeneous mixture without lumps.

Let the mortar stand for 5 minutes, then remix for 2-1 minutes before application.

Apply a thin layer using a brush, roller, or trowel.

After 6-5 hours, apply a second coat perpendicular to the first layer.

General Data

Appearance:

1st Component: Grey powder

2nd Component: White liquid

Shelf Life (Powder and Liquid): 12 months when stored in the original sealed packaging.





Performance Data:

Density: $100 \pm 1580 \text{ kg/m}^3$
Waterproofing Capacity (for 3 mm thickness): $\geq 7 \text{ bar}$ (positive)
Adhesion Strength (EN 14891): $\geq 0.50 \text{ N/mm}^2$
Adhesion Strength (EN 1542): $\geq 1.00 \text{ N/mm}^2$
Adhesion Strength After Water Immersion (EN 14891): $\geq 0.50 \text{ N/mm}^2$
Adhesion Strength After Freeze-Thaw Cycles (EN 14891): $\geq 0.50 \text{ N/mm}^2$
Adhesion Strength After Cycling Without De-icing Salts Impact (EN 3-13687 / EN 1542): $\geq 1 \text{ N/mm}^2$
Adhesion Strength After Heat Ageing (EN 14891): $\geq 0.50 \text{ N/mm}^2$
Adhesion Strength After Heat Ageing (EN 11-1062 / EN 1542): $\geq 1.00 \text{ N/mm}^2$
Adhesion Strength After Contact With Lime Water (EN 14891): $\geq 0.50 \text{ N/mm}^2$
Adhesion Strength After Contact With Chlorinated Water (EN 14891): $\geq 0.50 \text{ N/mm}^2$
Crack Bridging (23°C , %50 RH) (EN 14891): $\geq 0.75 \text{ mm}$
Crack Bridging (-20°C , %50 RH) (EN 14891): $\geq 0.75 \text{ mm}$
Crack Bridging (-21°C ; EN 7-1062): $\geq 2.5 \text{ mm}$ (A5)
Chloride Diffusion (ASTM C1202): $\leq 200 \text{ Coulomb}$ (Class: Very low permeability)
Carbon Dioxide Permeability (EN 6-1062): $S_d > 50 \text{ m}$ (Equivalent air thickness)
Permeability to Water Vapor (EN ISO 2-7783): Class I, $S_d < 5$ (Equivalent air thickness)
Capillary Water Absorption (EN ISO 3-1062): $< 0.1 \text{ kg/m}^2\sqrt{\text{h}}^{5.0}$
Heat Resistance: (-40°C) - ($+80^\circ\text{C}$)
Dangerous Substances: See SDS.
Reaction to Fire: European classification Cs1d0

Storage:

Liquid Component: Store between $+5^\circ\text{C}$ and $+23^\circ\text{C}$, avoiding direct sunlight.
Powder Component: Store dry and cool at $+5^\circ\text{C}$ to $+35^\circ\text{C}$, protected from water, frost, and weather conditions.
Shelf Life: 12 months under proper conditions.

Application Data:

Application Temperature: ($+5^\circ\text{C}$) - ($+35^\circ\text{C}$)
Mixing Ratio: 10 liters liquid / 20 kg powder
Mixing Time: 3 minutes at max. 500 rpm
Pot Life: 5 hours
Consumption: 1.7 kg/m^2 per 1mm thickness
Waiting Time Between Coats: 6-5 hours
Overcoatability Time: Min. 3 days
Waterproofing Time: 7 days

Package:

Powder Component: 20 kg multi-ply paper bags
Liquid Component: 10-liter drums
Set Total: 30 kg

