

Teknomer 500

Hydraulic Lime Based, Perfectly Elastic Waterproofing Material



Description of Product:

The product is a two component, hydraulic lime and synthetic resin based, polymer reinforced, and UV resistant waterproofing material with perfectly elastic application property.

Fields of Application:

- It is used in isolation of historical masonry structures,
- Isolation of external plastering applications,
- Isolation of plaster and surface repair.

Features and Benefits:

- Used in isolation of historical structures since it does not contain soluble salts.
- Applied with a brush or roller, or applied by spraying.
- Cement free.
- Does not shrink or crack.
- Suitable for both vertical and horizontal applications.

Application Procedure:

Surface Quality: The surface must be clean, smooth, solid and free from all kind of substances that prevent adhesion

such as dust, oil, dirt, rust, detergent, etc. If there is a segregation in concrete, the damaged and slack pieces should be thrown and weak pieces should be removed. If cracks and holes exist on application surface or wall, they should be repaired by using a suitable TEKNOREP 510 repair mortar. TEKNOMER 500 should be applied 3-4 days later.

Surface Preparation: If the application surface is dry, it should be wetted and saturated with water before the application. Sharp corners and edges should be chamfered with TEKNOREP 510 repair mortar.

Application Notes/ Restrictions:

Do not inhale the dust and prevent from contact with skin and eye since the material is hydraulic lime based.

Do not apply on wood, chipboard, mdf, plywood, PVC and metal surfaces.

The mixture should be prepared by using the product's own liquid. Do not add any water in mixture.

Do not add foreign substances.

The product need protection in order to obtain expected long-term performance. The necessary precautions should be taken against breakdown, scratch and impact after the application.

Firstly, the liquid B component of TEKNOMER 500 is poured into a clean vessel which is free from any kind of material that prevent adhesion. Then, the powder A component of TEKNOMER 500 is added slowly to the vessel. The mixture is stirred with a low-speed stirrer until a homogeneous blend without lumps is obtained. The mixing time should be minimum 5 minutes. The mortar obtained at the end of this process should be rested for 3 minutes, and mixed again for 2 minutes until it became homogeneous.

After the application, it must be protected from the bad weather conditions such as direct sunlight, strong wind, high temperature (above +35°C), rain and frost. The hands should be cleaned thoroughly with water and detergent before the product is fully cured and hardened.

After the application, the equipment should be cleaned immediately with water before the product is hardened. If the product is hardened, the equipment should be cleaned by mechanical methods.

TEKNOMER 500 is applied on the waterlogged surface with a brush or roll after completely mixed and rested, and it should be applied before losing its humidity. After first setting of the material, the second layer is applied as perpendicular to the first layer. Fiber reinforcement can be used between layers if required.

The necessary waiting period between layers; the next layer can be applied when no residue remains on hands upon touching the applied layer.

Technical Information

| General Information | |
|---------------------------------------------|------------------------------------------------------------------|
| Color | Component A is beige powder , Component B is white liquid |
| Color of the Mixture | Beige |
| Shelf Life | 12 months under proper storage conditions after production date. |
| Packaging | 26 kg set (16 kg powder and 10 kg liquid) |
| Application Information | |
| Mixture Density | 1,65 (± 0,50) |
| Time to Take Into Service | 3-4 Days |
| Performance Information | |
| Water Transmission Rate | < 0,1 kg/(m².h ^{0,5}) (TS EN 1062-3) |
| Water Vapor Transmission Rate | < 0,6 gr/(h.cm²) (TS EN ISO 7783) |
| Adhesion Strength | ≥ 1,0 (28 days) N / mm² (TS EN 1542) |
| Pressure Water Resistance | 7 Bar Positive |
| Temperature Resistance of Hardened Material | (-25°C) – (+80°C) |
| Hazardous Substances | Comply with article 5,3 |
| Reaction to Fire | Cs1d0 |
| Testing Standard (TSE) | Comply with TS EN 1504-2 |

| Property | Conclusion | TS EN 1504-2 Standard Requirement |
|--------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water Vapor Permeability | Class I sD < 5 m (permeable to water vapor), EN ISO 7783-1 EN ISO 7783-2 | <ul style="list-style-type: none">•Class I sD <5 m (water vapor permeable)•Class II 5 m ≤ sD ≤ 50 m (It is not dense and permeable to water vapor as in interior paints)•Class III sD > 50 m (dense against water vapor) |

Consumption Table

| Teknomer 500 | Mixture Density (kg/liter) | Mixture Consumption for 0,6 mm and 1 m2 (kg) |
|--------------|----------------------------|-------------------------------------------------|
| 26 kg set | ~1,65 | 1,0 – 1,4 |

Typical values are obtained from the test results of TEKNO Construction Chemicals Laboratory studies in +20°C and %50 relative air humidity conditions and valid for its performance after 28 days

