# YAYLA WATERPROOFING COMPOUND

Polymer Emulsion and Cement Based, Double Component, Fully Elastic, Waterproofing Material Fit for Potable Water Tanks


## PRODUCT DESCRIPTION

**YAYLA WATERPROOFING COMPOUND** comprised of cement based powder component and polymer emulsion based liquid component, which is fit for use in drinking water tanks and which can be applied prior to the top coating material.

## AREAS OF USE

**YAYLA WATERPROOFING COMPOUND** is applied for waterproofing before the top coating material in such wet spaces as bathrooms, kitchens and balconies, in terraces, and in such constantly wet spaces as pools and water tanks. It is suitable for use on horizontal and vertical surfaces of indoors and outdoors spaces.

## PRODUCT ADVANTAGES

- Fit for contact with drinking water.
- Highly adhesive.
- The product is resistant to water and frost.
- Ensures seamless waterproofing for application surfaces.
- It is applied under coating materials such as ceramic etc.
- Fully elastic.
- Applied rapidly and easily.
- Does not contain solvents, and is environmentally friendly.
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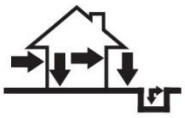


## PERFORMANCE

| Property | Value | Test Method |
|---|---|---|
| **Initial adhesion strength** | ≥ 0.5 N/mm² | TS EN 14891 : A.6.2 |
| **Adhesion strength after water contact** | ≥ 0.5 N/mm² | TS EN 14891 : A.6.3 |
| **Adhesion strength after thermal ageing** | ≥ 0.5 N/mm² | TS EN 14891 : A.6.5 |
| **Adhesion strength after freezing - thawing cycles** | ≥ 0.5 N/mm² | TS EN 14891 : A.6.6 |
| **Adhesion strength after hard water contact** | ≥ 0.5 N/mm² | TS EN 14891 : A.6.9 |
| **Waterproofing** | No penetration, ≤ 20 g increase in mass | TS EN 14891 : A.7 |
| **Adhesion strength after chlorinated water contact** | ≥ 0.5 N/mm² | TS EN 14891 : A.6.7 |
| **Crack bridging capability at very low temperatures** | ≥ 0.75 mm | TS EN 14891 : A.8.2 |

The foregoing values represent the results of laboratory tests conducted at 23 ± 2°C temperature and 50% ± 5 relative humidity conditions. The values provided as per the table may vary depending on the surface and ambient conditions.

## APPLICATION PROCEDURE

### Application Surfaces

Indoors and Outdoors Walls;

- Cement based plaster
- Concrete Indoors and Outdoors Floors;

- Cement based trowel coating
- Concrete

- **Surface Preparation**
- Application surfaces should be sound, clean, dust-free, and free from molding oils and other foreign substances. Such materials as mortar and cement residues should be peeled off.
- The surface defects, which are deeper than 1 cm, should be repaired with repair mortar 6 - 8 hours in advance.

**Application Methods**

- **YAYLA WATERPROOFING COMPOUND** product, for which the mixture has been prepared, must be applied on the surface in at least two layers with dry film thickness of 2 mm. The application of the second layer and the layers after that must be made after the first layer is fully dry and in perpendicular direction to the previous application.
- Depending on the nature of the application surface; the secondary coat may be applied after the placement of File on the primary coat. In the cases, where net reinforcement is necessary; the net shall be laid on the primary coat before it dries. After the mesh is laid, it should be placed on the surface with a flat trowel. After the first mesh layer has set, the second layer is applied.
- For coating processes over isolation on grounds where water proofing is done, use C2 and S1/S2 class adhesive with high performance according to TS EN 12004 standards.

**Application Recommendations**

- Due care must be taken to ensure that the insulation material is not damaged by mechanical impacts in the cases of coating over the insulation.
- The product should not be applied against negative water pressure.
- The product should, once mixed, be used before the expiration of its pot life. Any product, the pot life of which has expired, should not be used during the application.
- Any foreign material should not be added into the product's components during the application.
- The application surface should be sloped to prevent water accumulation.
- The product should not be applied on unsound surfaces. The soundness and the load bearing capacity of old surfaces should be checked prior to adhesion.
- The surface should be preserved from air currents and water contact during and after the application.
- The product should not be applied to such surfaces, which are exposed to risk of freezing within the next 24 hours, which are frozen or the frost of which is thawing.
- Due care should be given to prevent the exposure of the material to direct sunlight in hot weather conditions.
- The product should not be applied on extremely windy weather conditions or on hot surfaces, which are exposed to direct sunlight; and in the cases, where application is imperative under such conditions, the environment and the surface should be prepared for application in advance.
- The product should not be applied in rainy weather conditions, and the application surface should be preserved from rain for a period of 24 hours.

**Surface and Ambient Temperature**

Surface and ambient temperature should be between +5°C and +35°C during application.

## Application Limits

| Parameter | Value |
|---|---|
| **Pot life** | Maximum 4 hours |
| **Open time** | Maximum 30 minutes |
| **Adjustment time** | 20 minutes |
| **Time for joint filling** | 24 hours |
| **Time for traffic** | 24 - 48 hours |

The foregoing values represent the results of laboratory tests conducted at 23 ± 2°C temperature and 50% ± 5 relative humidity conditions. The values provided as per the table may vary depending on the surface and ambient conditions.

## TECHNICAL PROPERTIES

**Chemical Structure**: Polymer emulsion and cement based waterproofing material
**Dry Density**: 1.35 ± 0.05 g/cm³ **Mortar Density**: 1.74 ± 0.05 g/cm³
**Color**: Gray **Temperature Resistance**: -15°C to +80°C

## CONSUMPTION

The amount of consumption varies according to the condition of the application surface, the application method and notch size.

| Application Thickness | Consumption |
|---|---|
| **2 mm dry film thickness** | 2 - 3 kg/m² |

## PACKAGING

**YAYLA WATERPROOGING COMPOUND** is delivered as powder component in 20 kg kraft bags and liquid component in 10 kg plastic drums.

## SHELF LIFE

The shelf life of the product is 12 months when stored in untampered original packaging in a dry (maximum relative humidity 60%) and cool (ambient temperature between +5°C and +25°C) environment.

## STORAGE CONDITIONS

- The product should be stored in untampered original packaging in a dry (maximum relative humidity 60%) and cool (ambient temperature between +5°C and +25°C) environment.
- It should not be exposed to direct sunlight.
- The container should be closed firmly when not used.