

# Teknomer 600 1K

## One Component, Polyurethane Based, Waterproofing Material



### Product Description

TEKNOMER 600 1K; one component, polyurethane based, high quality, liquid waterproofing material which cures by reacting with the moisture in the air. Because of its high quality, it keeps its elastic structure. It is ready to use.

### Areas of Usage

It can be used safely as water protection for;

- Corrosion in terraces, roofs, balconies and creek gutters,
- Wet areas undertiles, flowerpots, foundation and foundation curtain walls,
- Corrosion in concrete structures,
- Exterior parts of the buildings.
- Wooden and sheet metal type applications.

Preliminary testing is recommended.

### Features and Benefits

- It is easy to apply (by a roller or a brush or a spray machine)
- It keeps its elasticity even at low temperatures.
- It has high frost resistance
- Excellent adhesion even on difficult surfaces.
- Can be applied seamlessly.
- Keeps its characteristic properties at (-30°C / +90°C)
- It has the feature of creating crack bridge.
- Accumulation is water resistant

### Application Instructions

**Surface Quality:** All Surfaces must be clean, dry, smooth, free from grease, oil, dirt and rust: Old loose coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. Possible surface irregularities need to be smoothened. Any loose surface pieces and grinding dust need to be thoroughly removed. Do not wash the surface with water. Damaged surfaces should be repaired with TEKNOREP repair mortar. Wait for 3 or 4 days to apply TEKNOMER 600 1 K after you repaired the damage parts with TEKNOREP.

**Surface Preparation:** If there is dilatation, it is necessary to isolate the dilatation by using Teknomer Chamfer bands and TEKNOBOND400 D before applying TEKNOMER 600 1 K. If you postpone it later, isolating the dilatation will cost more and it will be more difficult. All outlets and gutters, strainers should be insulated using chamfer bands. The surface must be dry. There mustn't be any puddle or ponding, Two component, epoxy based TEKNOBOND 300 should be applied as a primer to the concrete surface with a brush or roller as 0,200-0,400 kg / m<sup>2</sup>. Primer consumption varies according to the quality and absorbency of the concrete. The primer must be completely cured and hardened. For waterproofing application, wait at least 4 hours and maximum 24 hours.

**Surface and Ambient Temperature:** (+5°C) – (+35°C)

#### Application Instructions:

**Mixing:** Pour TEKNOMER 600 1K in a clean pail or keep it in its own pail and Stir it well before using it.

**Equipments and Application Methods:** After stirring TEKNOMER 600 1K, the product will be ready to be applied. Use a hard bristle brush or a spraying machine to apply it on the surface. When you finish the first layer please wait until it completes its reaction. The second layer has to be applied perpendicular to the first layer. The waiting time between two layers should be minimum 1 hour. Please check if it is dry or not before applying the second layer on the first layer.

As it does not have any UV resistance, It should be protected from direct sun light by using thermal insulating board, geotextile felt, guard plate and so on.

**Consumption:** Factors like temperature, application method and also the surface porosity might alter consumption. Depending on these factors the consumption is 1,20-1,50 kg/m<sup>2</sup>

**Cleaning:** It should be protected from direct sun light, rain, strong wind, snow, frost and also high temperature (+35°C and more) after the application. Hands should be washed before it is hardened.

**Cleaning of Equipment:** Immediately after application, before hardened, the skin which has contacted with the product should be washed with soap and water. Also the equipment should be cleaned with Tekno Thinner before hardened. After the product is hardened, it should be cleaned by mechanical methods.

**Pot Life:** Approximately 1 hour at +20°C

**Cleanability Time:** Approximately 1 hour at +20°C

#### Application Notes/ Restrictions

- Foreign materials should not be added.
- Apply it as two layers.
- Shouldn't be applied while it is raining. Surface should be dry.
- Please do not add water to dilute the product.
- It should be protected from direct sun light, rain, strong wind, snow, frost and also high temperature until it is hardened.

#### Technical Data

Appearance	White, Gray
Density (kg/ltr)	Approximately 1, 40±0.05
Light Pedestrian Traffic Time	1 6- 24 hours. (At +23 °C)
Tensile strength	>1 .5 N/mm <sup>2</sup> (7 days) DIN 53504
Breaking Strain	%500 (7 days) DIN 53504
Chemical resistance	Acidic and basic solution
Humidity Tolerance	%5
Viscosity (mPas)	2500 ~ 6000
Solid content ( % )	~85±3
Shore Hardness ( Shore A )	65 ( 7 Days )
Crack bridging (mm)	> 5 mm
Packaging	20 kg metal tin
Storage and Shelf Life	12 months under proper storage conditions after production date. It should be stored in its original unopened package, in a cool and dry environment. Keep it away from direct sunlight and frost.

Technical data that is obtained from the test results of TEKNO Construction Chemicals Laboratory studies in +20°C and frost %50 relative air humidity conditions and valid for its performance after 28 days.

