

# Tekno AD

## Cement Based Corrosion Inhibitor and Adhesion Promoter



### Product Description

It's a cement based special mortar which increases the adherence between old concrete and new concrete, containing corrosion inhibitor and silica fume to protect the reinforcement against corrosion.

### Areas of Usage

- It's used in engineering structures such as subways, highways, tunnels, dams,
- In repair and strengthening works,
- In order to prevent corrosion of UV exposed iron or ironstone which are likely to wait for a long time,
- In order to increase the adherence of structural repair mortar in concrete repair,
- In water ponds and all concrete applications.

### Features and Benefits

- Excellent adhesion to reinforcement and concrete
- It has good water impermeability.
- It protects the reinforcement against moisture.
- It has high early and final hardness feature.
- High mechanical strength.
- It is not toxic.
- Easy to apply.
- It has single component, is used only by mixing with water

### Application Instructions

Surface Quality: The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. Weak parts should be removed.

Surface Preparation: Concrete floor should be damp but there should be no water accumulation.

Mixing: 3.5 - 4.0 lt clean, clear water received from normal ambient temperature into a clean container which is free from all kinds of materials which prevent adhesion. TEKNO AD in 20 kg bag as powder is poured into a container filled with water. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. Mixing time should be at least 5 minutes, the mortar obtained at the end of the process should be rested for 3 minutes and mixed again until it becomes homogenous for 2 minutes. After mixing, it is applied to the pre-cleaned and moistened surface by brush, roller or spray. Intermittent mixing is recommended during application to avoid condensation in the material. After applying TEKNO AD, concrete must be cast within a short time (as wet on wet) or repair mortar must be applied. Application Notes/Restrictions When used to protect reinforcement against corrosion, the first layer is applied to the cleaned reinforcement in a thickness of 1 mm by means of a medium hard brush, roller or spray, the second layer is applied in a similar thickness after about 4-5 hours (for 20°C).

### Application Notes / Restrictions

- The product may be irritating to the skin; work clothes, protective gloves, masks and glasses must be used. Protective cream can also be applied before starting work.
- In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
- Do not add foreign substances.

- If 4 hours last after treatment on the prepared TEKNO AD, the mixture should be prepared and applied again.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.

## Technical Data

General Information	
Appearance	Grey, lumpless powder
Shelf Life	20 kg kraft bag
Packaging	6 months in unopened original packaging
Application Information	
Consumption - As adherence mortar:	1.6-2 kg/m <sup>2</sup> powder material is required.
Consumption - To protect reinforcement against corrosion	~ 2 kg/m <sup>2</sup> powder material is required for 1 coat. (It is applied at least in two coats)
Pot Life	~30 min.
Grain Size	D <sub>max</sub> :1 mm
Dust Density	~1,2 kg/lt
Mortar Density	~2,0 kg/lt
Performance Information	
Pressure Resistance	≥ 65,0 N/mm <sup>2</sup> (TS EN 196-1)
Flexural Strength	≥ 8,0 N/mm <sup>2</sup> (TS EN 196-1)
Bond Strength	≥ 2,0 N/mm <sup>2</sup>

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at + 20°C temperature and 50% relative air humidity rate.

