

Teknobond AD

Epoxy Bonding Agent for Old and New Concrete



CE EN 1504-2

Product Description

Primer, which is epoxy based, two component, solvent free, flowable consistency, applied by brush or pouring, used to bond different materials each other or used in the adherence of old concrete to new concrete.

Areas of Usage

- It's used as an adhesive for horizontal surfaces in the planting of ores or in the anchoring and assembly of reinforcement.
- Before the application of repair mortars, to protect the reinforcement against corrosion,
- To adhere such as concrete, stone, metal,
- To provide the adherence of old concrete to new concrete,

Features and Benefits

- It protects reinforcements against corrosion by barrier effect.
- It provides very good adherence even on moist surfaces.
- It can be easily applied with both brush and pouring.
- It provides excellent adherence between old and new concrete.
- The tensile strength and adhesion strength values obtained after application are higher than the tensile strength of concrete.

Application Instructions

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.

Steel surfaces must be sandblasted to be removed from dust. The sides of the fractured surface should be cut as perpendicular as possible, the rust on the reinforcement should be cleaned, and new reinforcement should be added if necessary. In case of water flow on the surface, it must be drained or closed with a suitable plug.

Mixing: TEKNOBOND AD A component is added on the TEKNOBOND AD A component in a clean container which is free from all kinds of substances which prevent adhesion. The product is mixed with a low speed mixer until a homogeneous mixture is obtained. Care should be taken not to leave unmixed material on the edges of the packaging and on the bottom of the packaging, and the duration of the mixing should be at least 5 minutes. After mixing, TEKNOBOND AD is applied to the pre-cleaned and moistened surface by brush or roller. After TEKNOBOND AD is applied, new concrete should be poured or repair mortar should be applied between 5-30 minutes depending on the weather temperature.

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.
- The operating and reaction times of resin based systems are affected by ambient and substrate temperature and relative humidity in the air. At low temperatures, the chemical reaction slows down, extending the duration of use and the working time. Higher temperatures accelerate the chemical reaction and the above times are shortened accordingly. In order for the material to complete its cure, the ambient and surface temperature must not fall below the minimum allowable temperature.
- If it takes more than 2 hours to process the prepared TEKNOBOND AD, the mixture should be prepared and applied again.

- Defects in the hardened product exposed to prolonged exposure to direct sunlight (UV) may cause yellowing.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +30°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- During the application, no solvent should not be added in the mixture.
- Immediately after application, before hardened, the equipment should be cleaned with TEKNOTHINNER. After the product is hardened, it should be cleaned by mechanical methods.

Technical Data

General Information		
Color of Mixture	Grey	
Packaging	5 kg set	
Density of Mixture	1,50 + 0,05 kg/lt	
Shelf Life	12 months in unopened original packaging	
Application Information		
Pot Life	~45 min. (+20°C)	
Application Temperature	(+5°C)-(+30°C)	
Consumption	~ 1,6 kg/m² for 1 mm thickness	
Mixture Ratio	A:B=80/20	
Performance Information		
Pressure Resistance (TS EN 196)	3 days : > 40 N/mm²	7 days : > 60 N/mm²
Bending Strength (TS EN 196)	3 days : > 20 N/mm²	7 days : > 30 N/mm²
Bond Strength (7 days TS EN 196)	To concrete: > 3,0 N/mm²	To steel : > 3,5 N/mm²
Heat Strength After Hardening	(-20°C)-(+ 60°C)	
Full Curing	7 days	
Mixture Ratio	4 Units of A component, 1 Unit of B component (mass ratio)	

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.

