

CONSTRUCTION / ENERGY

CT-A/S

PCC FINE ANTI-CORROSION AND BONDING MORTAR IN CT-95 CONCRETE REPAIR SYSTEM

CE identification according to EN 1504-7:2007 1488-CPR-0111/Z

DESCRIPTION

Repair mortar CT-A/S is a one-component material, ready-to-use after mixing with batched water. CT-A/S is a cement-based mortar with high quality fine aggregate up to 0,5 mm and modified with additives and polymers (PCC). CT-P is a part of CT-95 Concrete Repair System.

APPLICATION AND USE

- Repair and reconstruction of concrete structures
- Reinforcing steel anti-corrosion mortar. Suitable for concrete repair works: Principle 11 Control of anodic areas, Method 11.1 Barrier coating of the reinforcement
- Bonding mortar between concrete – construction repair mortar
- Hand application

ADVANTAGES

- Perfect consistency and workability
- Watertight, permeable for vapour
- Rapid strength development
- High final strength
- Ease and safety of use
- Excellent adhesion to concrete and reinforcing steel
- Non-combustibility



TECHNICAL DATA

The data below are laboratory data. They may vary in practice due to surface properties of the substrate, humidity, pressure, and other factors.

PRODUCT CHARACTERISTICS

(Bonding mortar in selected applications of CT-95 Concrete Repair System)

Parameter	Details
Bond strength by pull off	@ 28 days \geq 2.0 MPa
Freeze-thaw resistance	\geq 200 cycles
Chloride ion content	\leq 0.05%
Adhesion to reinforcing steel	\geq 6.0 MPa

APPLICATION DATA

Parameter	Details
Colour / form	grey powder with aggregates < 0.5 mm
Amount of water per 25 kg bag	5.0 – 5.25 liters
Pot life at 20 °C	60 minutes
Output	17 kg/m ² /10 mm
Ambient temperature and substrate during application	min.+5 °C; max +30 °C

APPLICATION METHOD

1. Surface Preparation

Exposed reinforcing steel should be cleaned to the Sa 2 degree (acc. to EN ISO 8501-1). Concrete surface should be cleaned from dust, loose pieces of concrete and protective coatings. Any remaining oil, petrol and paintings have to be removed. Cleaning the concrete substrate should be carried out by hydro-sandblasting. Properly prepared surface should have 1,5 MPa pull-off strength. The surface of the concrete should be wet with water 24 h before starting the repair. Directly before the application excess of water should be removed.

2. Equipment

CTA/S can be mixed in a drum using a spiral paddle with a slow speed (400/500 rpm) heavy-duty drill or with use of a forced-action mixer.

3. Execution

CT-A/S is usually mixed in small quantities by adding one bag 25 kg of the CT-6 to 5,0 – 5,25 litres of tap water. Mix at least for 5 minutes.

Depending on the ambient temperature and the required consistency, the amount of water required may vary slightly but should not exceed 5,25 litres per 25 kg bag of CT-A/S. Do not subsequently re-temper with extra water.

Note that in all cases CT-A/S powder must be added to water.

The application process of CT-A/S should be adjusted to application of construction mortar (e.g. CT-2 or CT-6). The construction repair mortar has to be applied before a layer of CT-A/S is dry and before CT-A/S begins to set.

Application is performed with use of paintbrush or brush.

4. Curing

The repaired area should be protected for a few days against drying, especially when direct sunlight and wither occur. The protection should start directly after application. These actions are necessary to avoid shrinkage and/or cracks.

5. Cleaning

Clean tools with water. When hardened clean mechanically.

SAFETY INSTRUCTIONS AND LIMITATIONS

It is recommended that gloves, eye protection and a dust mask are used when handle CT-P. For more details refer to our Material Safety Data Sheet.

The material should not be applied when the substrate and/or air temperature is 5°C and falling. At 5°C static temperature or at 5°C and rising, the application may proceed.

At ambient temperatures above 30°C, the material should be stored in the shade and cool water used for mixing.

PACKAGING AND TRANSPORTATION

25 kg valve sack, 40 bags per pallet. Other packing on request.

STORAGE AND SHELF LIFE

Shelf life 6 months when stored in dry and cool conditions.

DISPOSAL

Follow local regulations.

APPROVALS AND CERTIFICATES

- Hygienic Certificate for contact with drinking water BK/W/0341/01/2019
- The product is labelled with CE mark acc. to EN 1504-7 requirements. Factory Control Certificate 1488-CPR-0111/Z
- National Technical Assessment IBDiM-KOT-2018/0135

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ME-NS/TE/03/55-02/ CT-A/S e02 (May 2016)

ADDITIONAL DOCUMENTATION

- CT-A/S MSDS

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