

# ADINGPOKS AKVA MALTER

*Water-based epoxy-cement repair mortar used for repair and surface protection of concrete*

## FIELD OF APPLICATION

Adingpoks Akva Malter is tri-component, epoxy-cement mortar for reparation and surface protection of concrete and reinforced concrete structures.

Adingpoks Akva Malter is used for:

- Structural reparation of concrete according EN 1504-3
- Reparation of surface imperfections from 2 mm up to 20 mm on vertical and horizontal surfaces, as well as curved surfaces (tunnels, domes etc.);
- Protection of concrete from carbonation and freezing;
- Increase physical-mechanical properties of concrete surface;

## PROPERTIES

- High strength characteristics;
- High resistance to wearing (abrasion);
- Provides protection of concrete from penetration and carbonation;
- Waterproofed;
- UV stable;
- Water vapor permeable.

## TECHNICAL FEATURES

| PROPERTY               | METHOD      | DECLARED VALUE            |
|------------------------|-------------|---------------------------|
| Appearance             |             |                           |
| A component            |             | viscous liquid            |
| B component            |             | viscous liquid            |
| C component            |             | grey powder mass          |
| Mixing ratio           |             | A:B:C = 0,5:0,75:25       |
| Density                | EN 12190    | 1,9-2,1 g/cm <sup>3</sup> |
| Pot-life at 20-25°C    | EN ISO 9514 | 100 min                   |
| Adhesion pull-off test | EN 1542     | ≥2 N/mm <sup>2</sup>      |
| Compression strength   |             |                           |
| 7 days                 | EN 12190    | ≥45 N/mm <sup>2</sup>     |
| 28 days                | EN 12190    | ≥50 N/mm <sup>2</sup>     |
| Maximal grain size     | -           | 2 mm                      |

## METHOD STATEMENT:

## SUBSTRATE PREPARATION

Concrete substrate on which material is applied must be clean, sound, firm and free of dust and grease. Cement bleeding residues and traces of paint and oils must be cleaned mechanically or chemically. Ambient and substrate temperature need to be 10-30°C. In case of reparation of old and damaged concrete elements, exposed steel reinforcement and anchors must be cleaned from corrosion, remains of paint and oil (using steel brush or sand-blasting).

In order to achieve higher adhesion, on porous concrete substrates it is recommended to apply Adingpoks Akva Prajmer prior to application of Adingpoks Akva Malter.

It is recommended to apply Adingpoks Akva Malter minimum 7 days after the casting of concrete in order to avoid crack formation due to initial shrinkage of concrete. In case when primer is not applied on the substrate, prior to application of Adingpoks Akva Malter concrete must be saturated with water.

## APPLICATION

Prior to application, components A and B must be mixed separately. Then, component B is slowly added to the component A and it is mixed constantly using slow electrical mixer (300 to 500 rot /min) until complete homogenization, and then 3.0-3.5 kg of water is added. To these mixture, component C is gradually added and again mixed until homogenization.

Application of material is carried out manually with spatula or metal trowel, in layers 2 mm to 20 mm thick.

## CONDITIONS AND LIMITATIONS OF APPLICATION

Adingpoks Akva Malter should be applied on the concrete surface pre-coated with Adingpoks Akva Primer or directly to concrete saturated with water. Temperature of concrete substrate and ambient temperature during application and 24 hours after application need to be between +10°C and 30°C, and relative humidity lower than 70%. During this period, applied material need to be protected from direct exposure to sun and wind. In case of application in closed spaces, it is necessary to provide ventilation.

## CONSUMPTION

Adingpoks Akva Malter, for one layer 10 mm thick (A+B+C): 19-21 kg/m<sup>2</sup>

## CLEANING

Tools and equipment are cleaned with water immediately after usage.

## PACKAGING

Set A+B+C: 26,25 kg  
A component: 0,50 kg  
B component: 0,75 kg  
C component: 25 kg

## STORAGE

In original closed packing, in dry chambers, at temperatures from 10-30°C, protected from direct exposure to sunlight. Usage: 9 months.

**Health hazards:** Avoid contact of the product with skin and eyes and avoid direct inhalation when mixing components. In case of accidental contact of the product with the skin, remove it immediately with clean water and soap. If the material splashes into the eyes, immediately rinse the eyes with clean water and seek medical advice. It is necessary to ensure ventilation of the premises where resins are handled. Additional information is provided in the Safety Data Sheet of the product.

**Fire:** Adingpoks Akva Malter is a non-flammable liquid. Additional information is provided in the Safety Data Sheet of the product.

**Cleaning and disposal:** Loose residues of Adingpoks Akva Malter should be cleaned with water. Old and used packaging should be disposed of in accordance with local rules and regulations for that type of waste. Additional information is provided in the Safety Data Sheet of the product.