

# REPARATUR PENETRAT

*Corrosion protection of the reinforcement, as well as pre-coating (primer) for polymer-cement repair mortars  
In compliance with EN 1504-7*

## FIELD OF APPLICATION

Reparatur Penetrat is used as an active coating for protection of steel reinforcement from corrosion, as well as to achieve an improved adhesion bond between old and new concrete or cement mortar. Reparatur Penetrat is most often used in the structural repair of reinforced concrete elements and structures.

## PROPERTIES

- One component cement based material;
- Excellent adhesion to concrete substrate;
- Protect reinforcement from corrosion;
- Does not contain chlorides;

## TECHNICAL FEATURES

Property	Method	Declared values
Appearance	-	Grey powder
Water/material ratio	-	0.28-0.30
Maximal size of aggregate	-	0.8 mm
Specific density	EN 12190	(1800 - 2000) kg/m <sup>3</sup>
Workability time at 20°C	-	up to 2 h
Adhesive bond	EN 1542	≥ 2,0 MPa
Compressive strength		
after 7 days	EN 12190	≥30 MPa
after 28 days		≥45 MPa
Flexural strength		
after 28 days	EN 1015-11	≥ 5 MPa

## METHOD STATEMENT:

## SUBSTRATE PREPARATION

To protect steel surfaces from corrosion (e.g. when repairing old or damaged reinforced concrete structures), visible reinforcement, anchors and other steel surfaces need to be cleaned of corrosion, paint and oil residues or cement laitance. Cleaning is done mechanically with a steel brush, sandblasting, or chemically with specialized steel cleaning products (e.g. Adingrost).

Concrete substrate on which Reparatur penetrat is applied need to be clean, free of dust and oil, all labile section must be removed. Substrate also need to be saturated with water. Surface temperature on material is applied must be between 5°C and 30°C.

## APPLICATION

Reparatur penetrat is prepared by mixing with required quantity of water, 280 to 300g of water per 1,0 kg material (one bag of material – 20 kg is mixed with 5,6 to 6,0 l water). Mixing is carried out with slow mixer until complete homogenization - minimum 3 minutes.

The application of mixture is carried out with brush, paint roller or by mechanical spraying.

Repairing mortar (or the fresh concrete) should be applied until pre coating Reparatur penetrat is still fresh (sticky when touch). Workability time for application of Reparatur penetrat depends from temperature (between 1-2 hours). If the temperature is high (above 30°C) or there is a strong wind, repairing mortar should be applied right after the application of pre-coating Reparatur penetrat.

## CONSUMPTION

Approximately 0,4 -0,6 kg/m<sup>2</sup>.

## CLEANING

Tools and equipment are cleaned with water immediately after their use.


## PACKAGING

Bags 20 kg

## STORAGE

In original closed packing, in dry premises at temperature between 5°C and 35°C. Shelf life: 12 months.

## CE MARKING

 2032	
<b>ADING AD Skopje</b> <b>Novoselski pat (street 1409)No.11, 1060</b> <b>Skopje, Republic of North Macedonia</b> <b>17</b> <b>GCBA001/6</b> <b>EN 1504-7:2006</b> <b>REPARATUR PENETRAT</b> <b>Active coating</b>	
<b>Corrosion protection :</b>	<b>Pass</b>
<b>Dangerous substances:</b>	<b>No performance determined</b>

**Health hazards:** Reparatur penetrat does not contain toxic materials. Nevertheless, avoid contact of the product with skin and eyes and avoid swallowing. In case of contact with skin or eyes, rinse it immediately with clean running water. If swallowed, seek medical assistance. Additional information are provided in the Safety Data Sheet of the product.

**Fire:** Reparatur penetrat is non-flammable.

**Cleaning and disposal:** Loose residues of Reparatur penetrat 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.

CONCRETE REPAIR