

## Specification

### - DEMOLITION

Removal of flaking concrete and thorough cleaning (until the iron is bared) of the reinforcing iron.

### - TREATMENT FOR THE IRON

Reinforcing iron treated with rust-inhibiting mortar such as **AKRON-FER** by **TECHNOKOLLA**, which should be applied with a brush and which complies with European standard **EN 1504-7**.

Amount required:

120/150 g/m on  $\varnothing$  1015 mm rods **AKRON-FER**

### - REFURBISHING CONCRETE

Refurbishing of the layer covering the reinforcing rods using fiber-reinforced mortar with compensated shrinkage, class **R3 PCC** in accordance with standard **EN 1504-3**, such as **AKRON**, in coats up to 3 cm thick or, alternatively, class **R4 CC**, such as **AKRON-FLUID**.

Amount required:

18-19 kg/m<sup>2</sup> **AKRON** or **AKRON-FLUID** per cm of thickness

### - FINISH

Finishing layer for the refurbished concrete using non-carbonating skimming plaster specially formulated for protecting concrete, class **R3 PCC** in accordance with standard **EN 1504-3** and class **R2 PCC**, in accordance with standard **EN 1504-2**, such as Technokolla's **AKRON-F**, in coats up to 3 mm thick.

Amount required:

1.65 kg/m<sup>2</sup> **AKRON-F** for every mm of thickness

- And we know how to solve them**
- Use mortar for the rust-inhibiting treatment of the iron rods
  - Use fiber-reinforced mortar that is not too rigid, otherwise it would tend to detach
  - Use finishing products that also exercise a protective function

- We understand the problems**
- Exposure to the weather conditions, such as chlorides (Cl) and carbon dioxide (CO<sub>2</sub>), which cause the iron to rust
  - Freezing and thawing cycles that cause the concrete to crumble
  - Attack from sulphates (SO<sub>4</sub>) which lead to ettringite

## Refurbishing concrete

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## Refurbishing concrete



# 16 Refurbishing concrete

GAP OR GAP-R

AKRON-F

CONCRETE STRUCTURE  
AKRON-FER

REINFORCED  
CONCRETE  
STRUCTURE

AKRON OR  
AKRON-FLUID

AKRON-FER



## AKRON-FER

Mortar for the rust-inhibiting treatment of reinforcing iron in refurbished concrete. It is a one-pack product which, when mixed with water, becomes a semi-fluid paste that can be easily applied with a brush. **AKRON-FER** exercises a strong protective action against water and chlorides. Conforms to standard **EN 1504-7**.



## Gap

Non-shrink, thixotropic, **fiber-reinforced** technical mortar for preparing substrates and refurbishing façades both indoors and outdoors, on floors and walls. Used in layers 3 to 30 mm thick as levelling mortar and up to 50 mm thick for the non-structural refurbishment of concrete constructions. Conforms to standard **EN 1504-3** class **R2 PCC**.



## Gap-R

Non-shrink, thixotropic, **fast-setting** technical mortar with a smooth finish for preparing substrates and refurbishing façades both indoors and outdoors, on floors and walls. Used in layers 3 to 30 mm thick as levelling mortar and up to 50 mm thick for the non-structural refurbishment of concrete constructions. Conforms to standard **EN 1504-3** class **R2 PCC**.



## AKRON

**Fiber-reinforced one-pack** mortar with compensated shrinkage and a low modulus for the structural refurbishment of concrete. Conforms to standard **EN 1504-3** class **R3 PCC**.

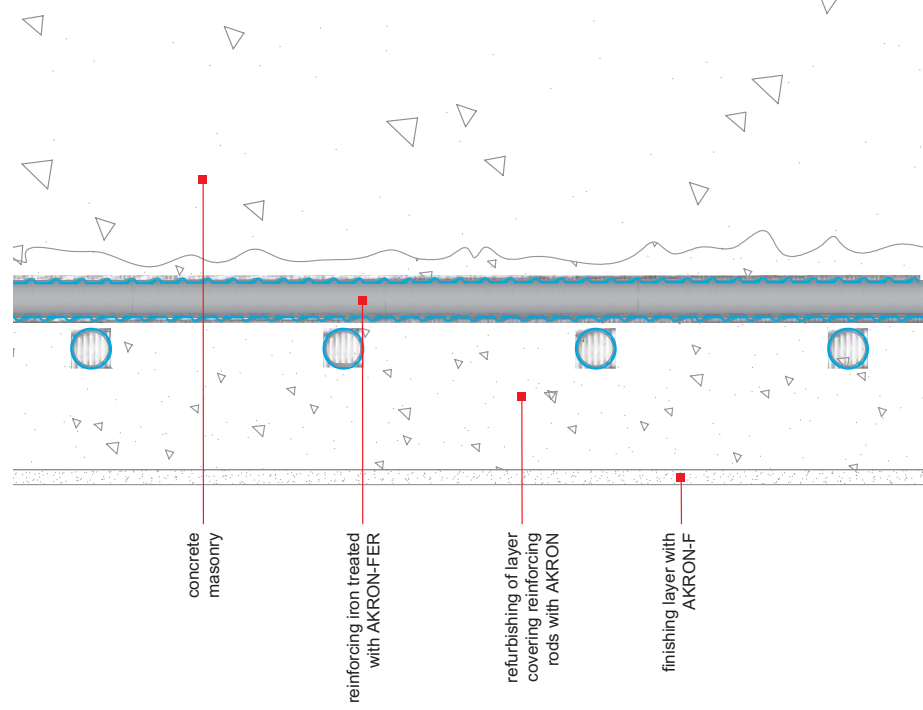


## AKRON-fluid

**Expanding fluid** mortar for the structural refurbishment of concrete and fixing purposes. The structures must be refurbished by means of moulds and, if necessary, by enclosing the pillar in a cage formed by new reinforcing rods. Conforms to European standard **EN 1504-3** class **R4 PCC**.

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S T R U C T U R A L



## Akron-f

Low modulus anti-carbonation skim-coating plaster for protecting concrete. Float finish. The maximum thickness must not exceed 3 mm. If the surface needs to be levelled still further, apply a second, 1-2 mm coat after about 4 h. Conforms to standards **EN 1504-3** class **R2 PCC** and **EN 1502-2** class **MC-IR**.

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# Technical Drawings