



# Fermalt

***Anticarbonation - passivated Cement-resin slurry***

## Product:

Fermalt is a dry pre-mixed cement binder compound containing selected silicate inerts, ant carbonation chemical additives and synthetic resins. Use on exposed and oxidised spacing rods in degraded concrete. It creates an alkali-passivated protective layer on iron and an ant carbonation anchor on blemished concrete needing restoration.

The blemished concrete should be treated with mortars such as Prores, Promalt or Proprip.

## Advantages:

- One-part product useable without waste.
- Excellent adhesion on any kind of solid support, concrete or iron.
- High resistance to weathering
- Easy application.

## Field of application:

Protects the steel spacing rod from oxidation caused by the combination of CO<sub>2</sub>, SO<sub>2</sub> and humidity. This combination causes the progressive loss of alkalinity from the concrete; favouring oxidation of the steel rod, with increase in volume and desegregation of the iron covering.

## Suitable supports:

Steel spacing rods  
Concrete

## Product information data:

- |   |                   |
|---|-------------------|
| ▪ Containers                              | 5 kg bucket       |
| ▪ Appearance                              | red cement powder |
| ▪ Specific weight                         | 1.8 kg/l          |
| ▪ Granulometry                            | < 0,4 mm          |
| ▪ Average consumption per cm of thickness | 1.8 kg/sq m       |

## Application

### Preparation of the supports:

The surfaces must be solid, seasoned and without any dust or dirt. Any traces of oils or greases or loose parts must be removed. Brush or sandblast the exposed rods until every particle of rust is removed. Wash the supports carefully.



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### Method of application:

Mix Fermalt with a drill mixer or with a trowel in about 1.2 l of clean water for every 5 kg bucket, until a smooth, homogeneous paste is obtained. The product must rest for about 10 minutes; briefly re-mix and apply the product using a brush.

The thickness of the first application is about 1 mm. After one hour the second layer of 2 mm can be applied. The second layer of Fermalt must be applied on the iron, but also on the surrounding concrete. It creates a sturdy base for mortars such as Prores, Promalt and Prorip. These kinds of mortar must be applied within 2 hours.

### Technical data:

▪ Water in the mixture	approx 24%
▪ Maximum thickness for every application	2 mm
▪ Maximum total thickness	3 mm
▪ Pot life	> 1 hour
▪ Setting time	approx 1 hour
▪ Adhesion to concrete after 28 days	> 2.5 MPa
▪ Usage temperature	+5 ° C / + 35 ° C
▪ Storage	2 months if kept in a dry place and in original containers
▪ Equipment	drill mixer, brush

### Please note:

Do not apply the product on overheated surfaces or in presence of strong wind or bright sunshine.

Do not apply on frozen supports or where there is a chance of intense cold within 24 hours of application.

Do not apply on painted surfaces.

Do not use the product as a rustproof finishing.

Do not add water, cement or any other mixed product.

After use clean all tools with water.

All the above data relate to tests carried out in a controlled environment, and are therefore liable to change when the product is used.