

Prores

Anti-carbonation cement mortar

Product:

Prores is a dry pre-mixed cement binder compound containing selected inert silicates, chemical additives and synthetic resins. Used on horizontal, vertical, new or deteriorating concrete surfaces, it allows holes made by the removal of degraded parts to be made good, at the same time giving very high resistance to CO₂ and SO₂ chemical agent aggression. In presence of atmospheric humidity CO₂ and SO₂ cause the progressive loss of alkaline concrete qualities (passing from a basic to an acid environment). These phenomena cause internal oxidation of the spacing rods, increasing their volume with the consequence of desegregation of the covering.

Advantages:

- Excellent adhesion to every kind of solid cement support, high resistance to aggression by atmospheric agents.
- Thixotropic, can be laid up to 5 cm thick without using any formwork.
- High resistance (can also be used as structural mortar)
- Optimal workability

Field of application:

For restoring new or degraded concrete surfaces, in vertical, horizontal, internal and external walls with cavities or loose parts caused by aggression from CO₂ and SO₂.

Suitable supports:

Concrete, new and old supports provided they are stable.

Product information data:

Containers 25 kg bag
Appearance grey cement powder
Specific weight 1.7 kg /l
Granulometry < 1 mm
Average consumption per cm of thickness 18 kg/sq m

Application

Preparation of the supports:

The surfaces have to be seasoned, solid and clean of dirt or dust. Any traces of oil, greases, moulds or loose parts must be removed. Brush or sandblast the exposed rods carefully, passivating them with a Fermalt cement slurry.
Moisten the supports that are to be treated in advance.

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Methode of application:

Mix Prores in a concrete mixer, or with a drill mixer in about 4.5 l of clean water for every 25 kg bag until a smooth paste with a plastic texture is obtained. The product must rest for approx 10 minutes; briefly re-mix and apply using a stainless steel spatula. The thickness for every application is 2-3 cm. Any pop-up rods should be passivated with Fermalt and covered with Prores within 2 hours. When Prores is seasoned the surface can be smoothed with Protixo and painted with Ekobeton.

Technical data:

▪ Water in the mixture	18%
▪ Minimum applicable thickness	1 cm
▪ Maximum thickness for every application	5 cm
▪ Maximum total thickness	10 cm
▪ Pot life	> 1 hour
▪ Setting time	approx 2 hours
▪ Compression resistance after 28 days	> 30 MPa
▪ Stiffness after 28 days	> 6.5 MPa
▪ Adhesion to concrete after 28 days	> 1 MPa
▪ Storage	12 months if kept in a dry place and in the original container
▪ Equipment	concrete mixer, drill mixer, trowel

Please note:

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

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, chalk, plastic covering or lime plaster.

Keep the surfaces humid for 24 hours after application.

Do not add water, cement or other mixed products.

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