

Profer 100

Single-component, corrosion-resistant cementitious mortar, specifically for the protection and passivation of reinforcement bars, certified according to UNI EN 1504-7.

Profer 100 is a single-component, polymer-modified cementitious mortar, specifically for the protection and passivation of reinforcement bars. Thanks to its specific formulation based on special redispersible resins and corrosion inhibitors, **Profer 100** is an excellent adhesion promoter for all repair mortars in the **licata.repair family** and, thanks to its antioxidant properties, prevents the formation of rust, guaranteeing effective and long-lasting protection of concrete reinforcement bars. Easy to prepare with good workability, **Profer 100** should be mixed simply by adding water and then applied with a brush.

Profer 100, in accordance with the principles in **UNI EN 1504-9**, fulfils the minimum requirements requested by **UNI EN 1504-7** ("Reinforcement corrosion protection").



MAIN FIELDS OF USE

- **Profer 100** is ideal for corrosion protection of reinforcement bars.
- **Profer 100** is an excellent adhesion promoter in the repair and protection of reinforced cement for all cementitious mortars of the **licata.repair** family

To apply to different substrates, please contact our technical department.

CHARACTERISTICS

- Certified **UNI EN 1504-7**. **Profer 100**, in accordance with the principles in **UNI EN 1504-9**, fulfils the minimum requirements requested by **UNI EN 1504-7** ("Reinforcement corrosion protection").
- Easy to prepare and apply. **Profer 100** is a single-component product. It should be prepared by only adding water and then, applied by brush.
- Medium-fast drying. **Profer 100** is dry to the touch after about 30 minutes and a second coat can be applied after about 1 hour.
- Increase in pull-out strength. Reinforcement bars treated with **Profer 100** have increased pull-out strength compared to untreated bars.



APPLICATION METHOD

Preparation of substrate

Mechanically remove any flaking or easily detached parts. Reinforcement bars that have penetrated the surface or are visible must be freed from surrounding reinforced concrete. Thoroughly clean the application area so that all rust has been removed. The bars must be brushed or sand-blasted down to bare metal.

Apply **Profer 100** immediately after preparing the metal.

Preparing the mixture

You need 0.725-0.775 litres of clean water (UNI EN 1008) for every 25-kg pack (or 29-31% density). Pour the product into a clean container with $\frac{3}{4}$ of the mixing water. Mix for about 3 minutes with a low-speed mixer, gradually adding the remaining water until you obtain a uniform, lump-free mixture. Leave the mixture to rest for about 3 minutes and then, remix. Do not divide the packages up into partial mixtures.

If the product is stored in open, partially used sacks, it may not meet the technical characteristics outlined in this document.

Application

Apply **Profer 100** using a brush along the entire length of the bar. Once the first coat has dried (about 30 - 60 min. depending on the weather conditions), apply a second coat. Make sure that each layer of **Profer 100** is at least 1 mm thick. The final thickness must be between 2 and 2.5 mm. Once the passivating agent has cured (about 24 hours depending on the weather conditions), make the repairs using a specific mortar from the **licata.repair** family (**Repair 200 SR, Repair 250 N, Repair 250 R, Repair 450, Repair 400 C**). In extreme weather conditions (strong wind, full sun, etc.), it is advisable to take precautions to prevent the product from drying too quickly.

Make sure that the ambient temperature, that of the substrate and product during application is between +5 °C and +35 °C.

PRODUCT INFORMATION

Appearance	Yellow powder
Particle size	< 0.3 mm
Powder consumption	1.3 kg/m ² every 1 mm of thickness
Mixing water	29%-31% of weight of powder
Workability time at 20 °C	> 40 minutes
Application thickness per coat	≤1 mm
Application temperature	From +5 °C to +35 °C
Storage	12 months in dry, protected place in unopened container at temperatures between +5 °C and +35 °C
Packaging	2 x 2.5-kg bags in 5-kg polypropylene drum
Density	1750-1850 kg/m ³
pH of mixture	approx. 12

PERFORMANCE required according to UNI EN

Characteristic	Test method	Legal requirement	Performance
Corrosion protection	EN 15183		Pass
Hazardous substances	NA		in accordance with 5.3

WARNINGS

- Product for professional use.
- Apply **Profer 100** immediately after sand-blasting.
- Do not add water or more powder to the product once mixed.
- Alkaline material: protect eyes and skin during application.
- After use, wash tools with water while the mixture is still fresh.
- The ambient temperature and humidity rate influence the workability, setting and drying times.
- Take care of the product's curing period for at least 24 hours after applying, protect the fresh mortar from rapid drying, direct sunlight, strong wind and heavy rain.

SAFETY

Please consult the safety data sheet for information about product disposal, storage and usage.

NOTES

This data sheet replaces and voids all previous versions.

The indications and specifications given in this document are based on our current technical and scientific knowledge. They should, however, be considered as purely indicative because we have no control over the conditions in which the product will be used. The purchaser must, therefore, check that the product is suitable for his specific requirements. Our sales and technical network guarantees rapid consultancy services and is at your disposal for any clarifications and questions you may have about the use and application of **Licata SpA** products.

Data sheet ref.: 110/17.1

