



# Faceal Hydro RF

(SILAN Technology)



Protection of new concrete structures against water, chlorides, carbonation and corrosion of concrete bars.

Conforms to EN 1504-2 norm and TL/TP OS-A of ZTV SIB 90.

## Product description

**Faceal Hydro RF** is a colourless, solvent-free impregnation product designed to provide in-depth protection of concretes and materials of mineral origin against water, humidity, chlorides, carbonation and corrosion. **Faceal Hydro RF** penetrates up to 5 cm.

**Faceal Hydro RF** is a non film-forming product (it allows the material to “breathe”) used to protect reinforced concrete structures. It is also very effective on microcracks up to 0.3 mm and stops alkali-silica or alkali-aggregate reactions in concrete and construction materials.

**Faceal Hydro RF** is ideal to protect civil engineering structures (bridges, pillars, car parks...), architectonic concretes, etc.).

**Faceal Hydro RF** can also be used to regulate the absorption of materials before application of the protection products Faceal Color.

- Non film-forming: does not affect the mineral appearance of surfaces.
- Very good penetration.
- Effective under high humidity conditions.
- Protection against chemical or biological agents that are water soluble (particularly chlorides).
- Highly resistant to alkaline substances.
- Complies with EN 1504 norm.
- Ready to use.

## Official tests

**Faceal Hydro RF** has passed numerous tests demonstrating its performances and its effectiveness.

- Kiwa Polymer Institute (Germany): conformity to EN 1504-2 Norm
- CBI BetongInstituttet AB (Sweden): Test on penetration depth inside concrete, breathability, resistance to freeze and thaw cycles, resistance to chlorides according to Swedish National Road Authorities
- LR Vision (France): Test on water penetration and chloride resistance

## Chemical properties

- Alkylalcoxysilane base.

## Advantages and characteristics

- Long term efficiency > 15 years.
- **Efficient in only a few hours!**
- Permeable to water vapour.

## Packaging

5 and 25 litre containers.  
1 000 litre containers.

## Technical data

Physical state at 20 °C	: Liquid
Colour	: Colourless
Odour	: None
pH	: NC
Boiling point [°C]	: 186 °C
Density	: 0.88
Solubility in water [vol/vol]	: Insoluble
Flashpoint [°C]	: 63°C
VOC	: < 20 g/l

## Instructions for use

- Shake the container well before use.
- The surface must be dry, clean and free of any trace of oil, grease, cleaning product, dust, efflorescence, paint or any other substance liable to prevent the correct penetration of **Faceal Hydro RF**.
- Use the product in the pure state: do not dilute.
- **Faceal Hydro RF** can be applied either with a brush or with a low-pressure sprayer with a Viton seal.
- Apply 1 to 3 coats until saturation which will vary due to the degree of exposure to weather and abrasion. In exceptional cases (tide, marine environment...), **Faceal Hydro RF** must be applied in 3 to 6 coats.
- **Faceal Hydro RF** can be treated or covered about one day after application by a protection product such as Faceal Colour.

## Consumption

Consumption depends on the porosity of the material and its geographic location. The values below are given only as an indication:

**180 to 230 g/m<sup>2</sup> per coat.**

## Cleaning of equipment

- Clean tools and equipment immediately after use.

## Storage

- Store away from frost and heat in a dry place: temperature between 5 °C and 30 °C.
- Storage period: 12 months from date of manufacture in unopened original container.

## Recommendations

- Only treat surfaces which have been cleaned of any atmospheric pollution.
- For perfect application and effective protection, **Faceal Hydro RF** must be shaken and always used when the temperature of the surfaces to be coated is above 5 °C. Avoid application in high winds.
- Do not apply in rainy, frosty or extremely hot weather. Temperature between 5 °C and 30 °C.
- Do not dilute or mix with another product.

## Health and safety

- Respiratory protection: No respiratory protection equipment is required under normal conditions of use with adequate ventilation.
- Hand protection: Wear rubber gloves.
- Skin protection: No special clothing or skin protection is recommended under normal conditions of use.
- Eye protection: If there is a risk of considerable splashing, wear protective goggles.
- In the event of ingestion: do not induce vomiting. Contact a doctor or a specialist.

**Keep out of reach of children !**