

# Pavigrout R4®

## Thixotropic repair mortar

High resistances cement compound, selected arid, special additives and fiber reinforcement.



### Product

- High performances.
- Fit for concrete sanitation.
- Controlled retraction mortar.
- Immediate high resistance.
- Armed with fibers.
- Without fissures.

### Observations

- Moisten well before application of **Pavigrout- R4**.
- Do not add any additive to the mortar.
- Do not apply **Pavigrout-R4** over plaster or painting surfaces.
- Do not add water when the mass starts its setting process.
- Do not apply where water can remain stuck.
- When necessary apply a second layer, apply before the first layer setting.

### Characteristics

- Rest time after the kneading: 5 min.
- Mass life: 60 min. (20oC)
- Maximum tolerated thickness: 3-15cm (on 5cm layers)
- Setting start : 2- 4 hours

*\*These times are contemplated with 20oC and they can oscillate depending on the ambient temperature.*

### Performances

- Apparent dust density: 1.4 g/cm<sup>3</sup>
- Mass density: 1.7 g/cm<sup>3</sup>
- Kneading water (in laboratory): 15 %
- Adherence for direct traction: ≥ 2 MPa
- Compressive strength: ≥ 45 N/mm<sup>2</sup>
- Chlorides determination: ≤ 0,05 %
- Elasticity module in compression: ≥ 20 GPa
- Frost-thaw with salt immersion: ≥ 2 Mpa
- Capillary absorption: ≤ 0.5 kg / (m<sup>2</sup>xh<sup>05</sup>)
- Behavior against fire: A1 Euroclass

*\* These results have been obtained with standard essays and they can oscillate depending on the workplace conditions.*

### Enforcements

- Reconstruction from the recovering layer in the armor in armed cement structures.
- Reparation of columns, beams, cantilever, pillars, balconies, degrading concrete zones..., due to armors corrosion and that a quick setting is required.
- Surfaces exposed to strong abrasion reparation (canals, pavements, ramps...)
- Wall, tunnels regularization...
- Restoration and reparation of road viaducts.
- Indoors and outdoors.

### Supports

- Concrete and cement mortars.
- Standard concrete block

### Recommendations

- Application temperatures from 10 -30°C.
- The water percentage can oscillate depending on the used mixer.
- In zones where the armor iron appears, clean with sandblast or with a metallic plane, cover with anti-corrosion mortar **Pavifer** and let it get dry at least 1 hour.
- Do not apply **Pavigrout-R4** over smooth concrete supports (before rough out and open porous).
- Do not use with filling paste
- Eliminate the deteriorated concrete, with possible release until obtaining a solid support.
- Do not apply with direct insolation, rain possibility or frost...

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## Execution conditions

The supports have to be healthy, stable and resistant and without dust, plaster, painting...

Eliminate the deteriorated concrete and in a degrading status until arriving to the solid, resistant and wrinkled support.

Before the **Pavigrout-R4**, application, soak until saturation and apply when the surface is without water.

On structural reparations and with the armor appearance, sanitize with sandblast, eliminate the dust and cover with anti-corrosion mortar **Pavifer**, let it get dry at least 1 hour.

Over facings without absorption, very smooth or few absorbent, strip and open porous to secure a good adherence.

Avoid coating application with low temperatures, strong humidity, rain... In the following hours to the mortar, application increases the carbonation efflorescence appearance risk.

## Usage way

\*Manual kneading:

Mix a sack **Pavigrout-R4** (25kg) with 3,5-4,5 liters clean water until obtaining a homogeneous mass.

\*Projected with machine:

Mix the mortar with 15-16% clean water approximately.

\* In zones where the iron armor appears, clean and apply anti-corrosion mortar **Pavifer**, let it get dry at least 1 hour.

\* Apply the final layer **Pavigrout-R4** and give the desired finish.

\* Place the glass fiber or metallic mesh in zones with fissures appearance risk.

## Associated products

\*Pavifer

\*Pavigrout-R3

\*Pavigrout-R2

\*Pavigrout fluid



## Packaging

25 kg sack  
1200 kg pallet (48 sacks)

## Colors

White and grey

## Consumption

±1.4 kg/m<sup>2</sup> and mm thickness

## Preservation

In the closed original container and sheltered from outdoors and humidity: 1 year

## ⚠ IMPORTANT

The observations and prescriptions of this data sheet, although corresponding to our best experience, should be considered, in any case, purely indicative, and should be tested by exhaustive practical applications; therefore, before using the product, the user must establish whether or not it is suitable for the intended use, and assumes all liability that may arise from its use. Once the product has been handled or applied, the manufacturer shall not assume any claim whatsoever, nor any liability as to the manner, mode and conditions of application.