



# TECHNICAL INSTRUCTIONS

## 1 - DESCRIPTION

ROXEM® is a fibrous biconstituent mortar paste with a hydraulic binder base, specific liquid additives and mineral fillers.

After mixing, a light grey- or white-coloured mortar paste is obtained.

ROXEM® can be coloured. Surfaces are finished with special mineral fillers to obtain varied attractive finishes that last a proven 10-20 years depending on road traffic (T1-T6).

## 2 - GENERAL FEATURES

- Application thickness: 2-4mm
- Excellent adherence on many substrates (coating, etc.)
- Easy and quick to use
- Contains fibres to improve mortar cohesion and reduce risk of cracking and premature wear and tear.
- Area can be reopened to traffic within a short time period:
  - 24 hours for light pedestrian traffic
  - 48 hours for vehicular traffic at 20°C
  - 72 hours for heavy traffic at 20°C
- Low elasticity modulus
- Punching resistance
- Easy to clean with water

## 3 - RANGE OF APPLICATIONS

- Paving, tiling and borders that look just like natural stone or concrete.
- Road marking for pedestrian crossings, arrows, logos, bus stop clearways, etc....



#### **4 - PHYSICAL CHARACTERISTICS AND TESTING**

- Appearance: grey or white powder
- Density of bulk volume: 1.7 approx.
- Density of fresh mortar: 2 approx.
- Grading: 0-2.5mm
- Freeze-Thaw Cycle: complies with French standard NF EN 13687-4
- Brine freeze-thaw cycle: complies with French standard NF EN 13687-1
- Adherence to substrate complies with French standard NF EN 1542:

##### Surface cohesion failure

- Traffic testing by French public works research laboratory (LCPC) in Nantes in accordance with Quality Standard ISO 9001
- Slipperiness/adherence SRT  $0.73 \pm 5\%$
- Accelerated wear and tear depending on road traffic class after passage of 1 million vehicles: Complies with NF EN 1436  
T1 (700-350 HGV/day) 10 YEARS  
T2-T6 (0-350 HGV/day) 10-20 YEARS
- WEHNER SCHULZE test: Adherence after wear and tear  
“The product’s macro- and micro-structures held up well after polishing. No stripping observed. Adherence maintained.”
- Good conservation of original colours

#### **5 - PACKAGING**

Base layer: (A+B) 33 kg kit - (A 28 kg bag + B 5 kg can)

Finishing mineral layer: (C) 25 kg bag

#### **6 - STORAGE – CONSERVATION**

Stored in its packaging in dry conditions, the product will keep for 6 months from date of manufacture as printed on the packaging.

#### **7 - CONSUMPTION**

This depends on substrate roughness and the thickness of the applied layer

- Mortar paste (A+B) ROXEM® - 33 kg kit: 5-6 m<sup>2</sup> approx.
- Finishing mineral layer (C) - 25 kg bag: 7-8 m<sup>2</sup> approx.



## 8 - APPLICATION

- ROXEM® should be applied to a dry, load-bearing substrate (coating, etc.) free of cracks and from which all non-adherent elements have been removed.
- After mixing the ROXEM® components (A and B), the mortar paste should be applied evenly using a spatula on a matrix cut to shape, (10x10 slabs, 14x14 slabs, paving circles, etc.)
- Sprinkle liberally with finishing layer (C), roll, remove frame and repeat as often as necessary.
- Once the product has hardened (24-72 hours), sweep off excess to show final paving effect.
- ROXEM® can be used in temperatures between +5° and +25° and above in certain conditions (implementation of protective measures).
- Depending on temperature, pot life for a ROXEM® kit is 30-90 minutes.
- Equipment should be cleaned in water immediately after use.
- ROXEM® products are easy and quick to use by trained professionals, approved and monitored by STYLROC.