

POZICOTE™ FR

PRODUCT DESCRIPTION

PoziCote™ Fine Render is a polymer modified fairing mortar for applications in thin layers. It produces a natural concrete Grey appearance to concrete or masonry surfaces. It can be applied from feather edge up to a maximum thickness of 5mm. PoziCote™ Fine Render is shrinkage compensated and based on hydraulic binders, high-grade fillers and synthetic polymers.

FEATURES

- Shrinkage compensated allows for long term dimensional stability
- Single component system of pre blended powder
- Excellent bond strength and adhesion to concrete or masonry surface.
- Feather edging capability.
- Easy to use and apply.
- For internal or external use.
- Durable, low water permeation.
- Can be used in vertical, horizontal and overhead application.
- One component, simply add to water and mix

RECOMMENDED USES

- Thin layer patching for vertical, horizontal and overhead applications.
- Repairing honeycomb concrete, cracks and pinholes.
- Patching of Tilt slab and pre-cast concrete.
- As of render over brickwork, concrete & other common masonry is required.
- Applications requiring thin build from feather edge to 5mm in one application.

PROPERTIES

Table 1. Compressive Strength.

Tested in accordance to AS10129.9, AS2073 @20°C.

Age	Compressive Strength
1 Day	20 MPa
3 Days	26 MPa
28 Days	30 MPa

Table 2. Flexural Strength

Tested in accordance with ASTM C348-86 at 20°C

Age	Flexural Strength
28 Days	6.5 MPa

Table 3. Bond Strength.

Tested in accordance to ASTM C882 – 1987 Slant/Shear method.

Age	BondStrength
7 Days	>2 MPa
28 Days	>5 MPa

Table 4. Setting Times.

Vicat setting times at 20°C.

Initial Set	Final Set
30-45 minutes @ 20°C	45-60 minutes @ 20°C
20-30 minutes @ 30°C	30-40 minutes @ 30°C

Table 5. Working Times.

Temperature	Working Time (minutes)
10°C	55-60 minutes
20°C	25-30 minutes
30°C	15-20 minutes

Table 5. Application Temperatures.

Minimum	Maximum
5°C	35°C

APPLICATION INSTRUCTIONS

SUBSTRATE AND SURFACE PREPARATION

Surfaces should be clean, sound and free of dust and loose particles. Cement laitance, oil, grease, mould release, oil or curing compounds must be removed from concrete surfaces by using a wire brush, scabble, grit blasting or other means.

Ensure that steel rebars are also clean from grease, oil or rust.

When repairing spalled or deteriorated concrete, ensure the concrete has been cut back to sound material. All absorbent surfaces to be treated with PoziCote™ Fine Render must be thoroughly dampened to saturate all pores.

During application, the temperature of the substrate should not be below 5°C.

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PRE SOAKING

Pre-soak substrates with water to saturation point prior to applying PoziCote™ FR Fine Render.

For very porous substrates it is essential that after pre-soaking the substrate, remove free water and apply Ramset Cemcrete™ allow it to reach a tacky consistency prior to application of PoziCote™ Fine Render.

MIXING

Small quantities (up to 5kg) can be mixed by hand, using a suitable mixing drum, bucket and trowel or mixing drill with stirrer, after ingredients have been volume batched.

Volume batching method – measure 5 Kg of Ramset PoziCote™ Fine Render to 1.87 Ltr (max) of clean quality water. Place water in a suitable mixing vessel and add PoziCote™ Fine Render whilst continuously mixing with trowel in one operation for 3 to 5 minutes until fully homogenous, uniform and lump free.

Greater quantities must be mixed with a mechanical forced action mixer with a high shear stirrer. Depending on the ambient temperature and the desired consistency, the amount of water required may be varied slightly but should remain between 6.5-7.5 litres per 20kg bag.

In all cases Ramset PoziCote™ Fine Render must be added to water. Do not add water to PoziCote™ powder.

DO NOT MIX LARGE QUANTITIES BY HAND.

APPLICATION

Apply the mixed PoziCote™ Fine Render to the prepared substrate by steel trowel from feather edge up to 5mm thickness. Placement should be carried out with a minimum of working and be allowed to partly set before finally trowelling to a smooth finish.

If a very smooth finish is required, a steel trowel should be used.

Excess water on the surface will result in surface crazing and cracks. Do not proceed with the application when rainfall is imminent unless in a sheltered or protected situation.

DO NOT ADD EXCESS WATER.

Note: Maximum applied thickness of PoziCote™ Fine Render is 5mm.

FINISHING

PoziCote™ Fine Render is finished by striking off with a straight edge and closing with a steel float.

Wooden or plastic floats or damp sponges may be used to achieve the desired surface texture. The completed surface should not be overworked.

CURING

In hot, dry windy condition all cementitious-based mortars such as PoziCote™ Fine Render must be protected against excessive rapid surface drying and evaporation by application of a curing membrane such as Ramset Cemcrete™.

PoziCote™ Fine Render must be cured immediately after finishing in accordance with good concrete practice. In very extreme temperatures and drying conditions, supplementary curing with polythene sheeting, taped down at the edges, may be required.

Large areas should be cured as trowelling progresses 0.5m² at a time. Do not apply large areas of PoziCote™ Fine Render and apply curing membrane later.

COVERAGE

The approximate coverage is obtained if mixed in accordance with recommended procedures and accurately measured water content. A 20kg bag of PoziCote™ Fine Render with 7.5 litres of water will yield approximately 17 litres.

POT LIFE

Setting begins after 30-45 minutes (at 25°C substrate and ambient temperature) and ends after another 50-60 minutes. The working period depends very much on the product temperature and on the amount of mixing water added.

Therefore, the time given above should be regarded as a guideline.

The lower the temperature the longer the setting time. The less water added the shorter the setting time. The addition of water to the mortar after it has started to stiffen is not recommended and the product should be discarded.

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CLEAN UP

Remove uncured PoziCote™ Fine Render from tools and equipment with clean water immediately after use.

YIELD.

Approximately 17 litres when mixed at 7.5 litres of water per 20Kg bag

WATER REQUIREMENTS

6.5-7.5 litres per 20Kg bag.

STORAGE & SHELF LIFE

PoziCote™ Fine Render has a shelf life of approximately 8 months if kept in a dry environment completely away from moisture.

PACKAGING

20kg polylined bag.

Volatile Organic Compounds.

VOC - 1g/Lt

HEALTH AND SAFETY

Cement products are classified as non-hazardous under General Health and Safety guidelines, and materials containing Portland cement are alkaline in nature.

- During use avoid inhalation of dust contact with skin and eyes.
- Suitable protective clothing, dust masks, gloves and eye protection should be worn.
- Repeated or prolonged contact with cement products can cause skin irritation.
- If skin irritation occurs, remove contaminated clothing and flush skin thoroughly with water for a minimum of 15 minutes. Contact Poison Information Centre or consult medical adviser.

Material Safety Data Sheets (MSDS) are available from Ramset. Read the MSDS and product data sheet carefully before using any product. MSDS available from:

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