

P1 GENERAL PURPOSE RENDER

The **P1 General Purpose Render** is a basecoat render which is also suitable as a building mortar.

The render has been manufactured to BS EN 1996-1-1, mortar designation iii Cement:Lime:Sand mortar mix, and is fully compliant with BS EN 998-1, with an M4, CSII compressive strength & Wc1 water absorption rating. It incorporates selected binders, aggregates, additives and admixtures.

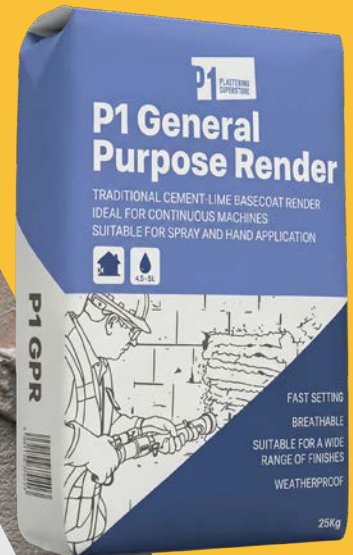
CONSUMPTION:

Consumption rates provided are for a smooth render finish, based upon a suitably flat surface and will vary according to the substrate conditions.

Thickness of 10 - 12 mm: 1.56 - 1.66m² per 25 kg bag

Minimum thickness of 15 mm: 1.05m² per 25 kg bag - 24 kg/m²

Thickness applied will vary depending upon application finish and weather rating zone.



GENERAL INFORMATION

P1 General Purpose Render is a pre-mixed ready-to-use mortar composed of a selected blend of cement, lime and fine aggregates for laying all types of bricks and blocks and for general rendering works above the DPC.

FEATURES & BENEFITS

- Quality assured mortar & render mix.
- Hand or spray applied.
- Easy to use. No gauging of materials, just add water.
- Excellent workability and water retention.
- External or internal applications.

APPLICATIONS

The P1 General Purpose Render can be used as a rendering basecoat that can receive a range of topcoat decorative finishes to locations classified as either Sheltered or Moderate as defined in the NHBC Chapter 6.1.14 Mortar section. It is also suitable for laying bricks and blocks. For additional information always refer to and follow the guidance of BS EN 13914-1.

AVAILABILITY

Available in 25kg bags.

STORAGE

This product must be stored in unopened bags clear of the ground in cool, dry conditions and protected from wind, rain and external physical damage. If stored correctly, as detailed above and used within the declared shelf life on the bag, the activity of the reducing agent should be maintained and this product should contain, when mixed with water, no more than 0.0002% (2ppm) soluble chromium (VI) of the total dry weight of the cement. Added to control the level of soluble chromium (VI).

USAGE GUIDE

GENERAL MIXING REQUIREMENTS

Contents of the bag can be mechanically mixed with the required quantity of clean water of approx. **4.5-5 litres per bag** in a free fall mixer or hand mixed by pouring the contents of the bag into a clean mixing container filled with the required clean water and mixing continuously using a paddle mixer to achieve a workable mortar mix. Use within 60 minutes of mixing.



THE PLASTERERS
ONE STOP SHOP

USAGE GUIDE – CONTINUED

SPRAY RENDER MIXING REQUIREMENTS

- Water pressure setting: 12 to 14 bars
- Mixed product operating pressure: 18 to 20 bars
- Lance output flow rate: 14 to 18 L/m
- Spray nozzles (min. Ø): 12 mm

SPRAY POTS

- Air pressure: 6 to 8 bars

SUBSTRATES

- Substrates must be sound, clean, dust free, stable, and free from anything that may interfere with the adhesion of the material being applied.
- Most open textured concrete blockwork types can have the render directly applied.
- For existing brickwork, aircrete lightweight blockwork, existing sound render, cast concrete or other suitable smooth masonry surfaces apply a suitable key coat / suction control / bonding coat beforehand.
- To assist the render, embed a reinforcing mesh either at stress point locations or throughout the application to assist against cracking.
- If you are unsure what to do contact PI The Plasterers One Stop Shop for further guidance.

TIME BEFORE OVERCOATING

- When applying thin coat or paint finishes, always ensure the render has fully dried. Moisture in the substrate will prevent the finishing coat from drying as the moisture relies on evaporation. Failure to allow for drying out could lead to wash off of the finish, particularly during wet, damp or humid conditions.
- If applying additional mineral render layers ensure the previous render layer has cured and hardened before applying further coats.

TECHNICAL DATA

Storage: 18 months

Water content: 4.5 to 5.0L/25kg bag

Application temperature: 5°C – 30°C

Colour: Grey

RENDER PERFORMANCE AS DESIGNATED UNDER EN 998-1 SINGLE COAT MORTAR:

- Compressive strength: CS II (1.5 to 5 N/mm²)
- W1 water absorption: $C \leq 0.40 \text{ kg/m}^2 \cdot \text{min}^{0.5}$
- Water permeability after freezing: $\leq 1 \text{ cm}^3/\text{cm}^2$
- Permeability to water vapour: $\mu < 35$
- Thermal conductivity (10, dry): $0.76 \text{ W/m}^2\text{K}$ (tabulated value)
- Durability/adhesion after freezing/Rupt: $\geq 0.2 \text{ N/mm}^2$ A or B or C
- Fire behaviour: A1 (non-combustible)

MIXED PRODUCT:

- Water retention: $> 86 - 94 \%$
- pH (alkaline): 12.5 ± 0.5

RENDER PERFORMANCE WHEN HARD:

- Density: 1.4 to 1.8 t/m³
- Modulus of elasticity: 3500 – 7500 MPa
- Bending strength: 1.0 to 2.0 MPa

MIXING, APPLICATION & CURING OVERVIEW

- Mixing rate: 4.5 to 5.0 L clean water / 25kg bag.
- Mixing time: 3 to 7 mins.
- Batch life time: 60 mins. max.
- Curing time: 4 to 6 hrs
- Max. thickness per layer: 20 mm
- Max. applied thickness: 30 mm
- Minimum thickness (weatherproofing): 10 mm

N.B.: These values stated are standard laboratory or site testing values. The preparation conditions and the substrate type and application of the material used may change them significantly.



THE PLASTERERS
ONE STOP SHOP

QUALITY MANAGEMENT

- PI General Purpose Render is manufactured under a registered ISO 9001 Quality System. Materials used comply with the following standards: Cement BS EN 197-1, Sand BS EN 12620 and Admixtures BS EN 934-3. Admixtures do not contain calcium chlorides.
- PI General Purpose Render should be used in accordance with BS EN 13914-1 & BS EN 1996-1-1. Water added on site should be clean and free from impurities.

GOOD SITE PRACTICE

- Protect from effects of the sun, wind, rain and frost after laying by covering with polythene, hessian or other suitable measure.
- Only use when ambient temperatures are between +5°C and +30°C.
- Clean tools and equipment immediately after use, set material may only be removed mechanically.
- In the case of high absorbency masonry units and/or high ambient temperatures, drying winds, rapid moisture loss from the render/mortar should be prevented by pre-wetting of masonry units or through an application of a purpose made suction control product prior to application.
- Do not add additional admixtures to factory produced mortars.

CONDITIONS OF USE

- If sulfate is present, PI General Purpose Mortar should not be used. Instead, Sulfate Resistant cement should be considered.
- As with other cements in building work, there is no substitute for good site practice. It is essential to use the correct materials, proportion and mix the materials properly, add the correct amount of water, compact, cure and protect as appropriate.
- The final strength and finish of this product will depend on the user having the necessary skills and knowledge of the product and its application.
- PI Plastering One Stop Shop cannot be held responsible where workmanship has not been carried out in accordance with good practice or in accordance with this product data sheet.

HEALTH & SAFETY

Contact between cement powder and lime and skin or body fluids (e.g. eye fluids) may cause irritation, dermatitis or burns. Cement and lime are classified as irritants under the Chemicals (Hazard Information and Packaging) Regulations.

In case of contact with eyes, rinse immediately with plenty of water and seek medical help.

After contact with skin, wash immediately with plenty of soap and water.

Please refer to the product safety data sheet for full information.

TECHNICAL SUPPORT

Should you require information for this product please contact our Customer Support team on 01242 236699 or email info@plshop.co.uk

For technical support, email info@plshop.co.uk
Alternatively, visit our website at: www.plasterers1stopshop.co.uk

PI Plasterers One Stop Shop
Montis Court, Bouncers Lane, Cheltenham.
GL52 5JW

The information contained within this publication was accurate at time of production. However, PI Plastering Superstore reserves the right to modify or change details at any time without notice. No charge is made for this publication or advice therein, and accordingly the company, its employees and authorised agents can accept no liability whatsoever, either indirectly or directly arising from the use of its products.