

presto® System render

PRODUCT PROFILE

Lime-cement basecoat and finish render for application to thermal-insulation clay brickwork/blockwork with bulk density > 700 kg/m³ and aerated concrete with bulk density > 500 kg/m³. Use as both basecoat and finish is particularly recommended where drying is subject to time constraints and rapid completion with mineral finish renders is required.

For indoor and outdoor use as basecoat and/or finish render for rustic textures and coarsely felt-floated or scratched finishes. After drying out, render takes on bright natural white colour. Additional coating or impregnation is required for exposed surfaces.

- mortar group P II/CS II to DIN V 18550/DIN EN 998-1
- premixed dry mortar with mineral binder
- low-chromate to TRGS (German Technical Regulations for Hazardous Substances) 613
- fire rating A (non-combustible)
- high lime content, in lower strength range
- for indoors and outdoors
- exceedingly low shrinkage
- low-stress
- vapour-permeable
- water-repellent
- weather-resistant
- good workability
- for manual or machine application
- Carrara white

TECHNICAL DATA (DIN EN 998-1, DIN V 18550)	
Bulk density:	1.5 kg/dm ³
Tensile bending strength:	1.6 N/mm ²
Compressive strength:	3.1 N/mm ²
Dynamic elastic modulus:	3500 N/mm ²
Water vapour diffusion resistance factor μ :	10
Thermal conductivity (10°C, dry) $\lambda_{10,dry}$:	≤ 0.67 W/(m·K), for P=50%
	≤ 0.76 W/(m·K), for P=90%
Capillary water absorption:	W 2

COVERAGE CHART					
	Grading	Coat thickness mm	Coverage kg/m ²	Coverage	
				m ² /bag	m ² /t
presto					
Scratched 101 Carrara white	1.5 mm	10.0	15.0	2.0	67.0
Scratched 101 Carrara white	1.5 mm	15.0	22.0	1.4	45.5
Freely textured 102 white *	1.5 mm	10.0	15.0	2.0	67.0

The above figures are approximate values and may vary according to background type.

* Colour forms through working of render

PREPARATION

Cover or watertightly mask dirt-sensitive elements. Provide netting to protect weather-exposed work surfaces.

Clean down background to remove laitance, concrete dust, dirt or any other matter impairing render bond. If required, pre-wet concrete and rubble masonry after cleaning. Spray on 5 mm full-cover spatterdash coat of DER VORSPRITZER. Allow to dry and set for 24 hours prior to continuing work.

To small lightweight woodfibre slab surfaces, apply 5-10 mm coat of presto, SM700 or Lustro, strike off with notched trowel and roughen. Roughen and dust down XPS-R board surfaces, then apply 5-10 mm coat of SM700 or Lustro and allow to dry for 3 days.

Prime aerated concrete with Neutrasit® suction-control coat (diluted 1:1 in water) and allow to dry for 24 hours.

With insufficiently strong backgrounds, properly fix lathing (Distanet or equivalent). Apply approx. 10 mm coat of presto, press into lathing and strike off. Then apply a further 5-10 mm coat over lathing, strike off and roughen. After 2 weeks, apply a further approx. 10 mm coat of presto, strike off level and embed basecoat scrim near surface over whole area, with 10 cm lap at joints, or, after setting, incorporate scrim reinforcement over whole surface using SM700 or Lustro.

APPLICATION

When starting up with D6-3 pump set water to approx. 380 ltr. Pre-lubricate hoses with wallpaper paste. For manual application: stir bag contents with approx. 6.5 ltr water for max. 2 minutes.

As basecoat, apply min. 15 mm coat of presto outdoors and min. 10 mm coat indoors. Strike off level with notched darby. Embed basecoat scrim where required. Remove fins, protrusions, irregularities etc. using lattice plane after initial set. Allow to dry and set for 1 day prior to application of finish render.

For rustic brushed, freely styled or felt-floated textures, apply approx. 10 mm coat of presto, embed scrim near surface where required and horizontally roughen with broom. After 1 day's drying time, apply a further approx. 5-10 mm coat and work to required texture, brushing without water or striking off level and felt floating. Alternatively, after presto basecoat has dried, apply approx. 3 mm coat of FIP290 felt-float render and finish after initial set.

As scratch render, apply approx. 13 mm coat to WARM WALL systems and approx. 15 mm coat to basecoats. Apply/spray on presto in required thickness, working from top to bottom, platform by platform, level off using notched darby, smooth and compact with floorlaying trowel (risk of entrapped air). Prior to scratching, close any shrinkage cracks that may occur due to wind by pressing/patting down and compacting. Stop, compact and re-scratch any defects produced during scratching due to entrapped air using material from same coating operation (possibly from previous day). Scratch with circular strokes when material starts to set, possibly on same, but normally on following day, straighten out small irregularities using scraper. Very early scratching produces darker hue and prevents achievement of crisp texture.

To avoid colour variations, render connected surfaces without interruption and work to uniform finish. Depending on weather, spray in morning and scratch in afternoon, or vice versa. Properly sweep scratch render surfaces from top to bottom when fully dried.

REINFORCEMENT

For high-thermal-insulation walling materials, composite masonry, on weather-exposed elevations, for larger render thicknesses, over small lightweight woodfibre slab or XPS-R board surfaces etc., diagonally above or below corners of openings, for textured renderwork with aggregate size less than 2 mm (< 3 mm specified by DIN 18350, VOB – German Construction Contract Procedures – Part C) or for brushed/felt-floated finishes, bed basecoat scrim near surface with 10 cm lap at joints between scrim and 20 cm lap at joints/junctions in composite masonry. Alternatively, incorporate scrim reinforcement over surface after drying.

PLEASE NOTE

Rendering works are subject to the requirements of DIN EN 13914 and DIN 18350, VOB (German Construction Contract Procedures) Part C. Mix dry mortar only with clean water. Do not use any foreign additives. Do not apply at air and/or wall temperatures below +5°C. Protect fresh renderwork against frost and premature drying out. presto may be applied in a single coat of 10-30 mm thickness. For render thicknesses of 30-50 mm, apply in two or more coats and embed MARMORIT basecoat scrim over whole surface. Roughen undercoat(s) and allow to dry and set prior to application of next coat.

For render thicknesses exceeding 25 mm, allow min. 1 week drying time per centimetre thickness. Allow to fully dry prior to application of any further coating.

PLINTH TREATMENT

At plinths and areas in contact with ground: use UP310 cement plinth render for strong backgrounds > 6 N/mm²; use SOCKEL LUP lightweight plinth render for lightweight or thermal-insulation brickwork/blockwork and backgrounds of compressive strength class < 6 N/mm². presto may be carried down over plinth render to approx. 5 cm above ground level provided risk of splashing is low and additional protection (e.g. coating, impregnation etc.) is provided.

After drying out, all rendered surfaces in contact with ground or gravel beds shall be waterproofed/protected against moisture, starting from basement wall waterproof barrier up to approx. 5 cm above ground level, in accordance with DIN 18195. To this end, a 2.5 mm coat of MARMORIT SOCKEL-DICHT may be applied. Cover with nonwoven-faced studded sheet after drying.

COLOUR ENHANCHMENT

After completion of the works to enhance the appearance of darker colours it is recommended to coat in Finol, silicone equaliser paint, or Autol self cleaning effect paint.

SAFETY AT WORK

Mineral mortars exhibit an alkaline reaction upon contact with water. Causes eye irritation. Avoid contact with skin and eyes. Wear eye/face protection. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Requirements of safety data sheet shall be observed (current version obtainable at www.marmorit.de). Once set, the material poses no physiological or ecological hazards.

MACHINERY/EQUIPMENT

Mixing pumps such as PFT-G4/G5:

Stator: D6-3

Rotor: D6-3

Mortar hoses: 25 mm dia

Wet mortar pumping distance: up to 30 m

Where presto is applied as scratch render, use D8-1.5 with extension and remixer.

COMPOSITION

Binder: Hydrated lime to DIN EN 459, white Portland cement to DIN EN 197.

Aggregate: quartz and limestone graded to DIN 4226, 0-1.5 mm

Admixtures: Water-retaining admixture and water-repellent.

QUALITY

In accordance with DIN EN 998-1, the product shall be subject to initial type testing and ongoing factory production control (FPC). Being additionally subject to external monitoring, it is entitled to carry – alongside the CE mark – the RAL Quality Label for premixed dry mortar.

DELIVERY FORM/SHELF LIFE

30 kg paper bags (bulk form in container can only be supplied regionally). Shelf life 9 months, subject to storage in dry, moisture-protected environment.

SUPPLY

Via Marmorit approved applicators or local distributors

NOTE

This data sheet, which replaces all previous editions, is designed to provide you with advice and assistance. The information presented herein reflects our present state of knowledge. It cannot, however, embody the sum total of good practice, nor incorporate the provisions of all relevant standards, codes of practice and guidelines. These – together with the relevant application rules and guidelines – shall be duly observed by the applicator!

TECHNICAL ADVICE

Information and advice may be provided by our external representatives or the MARMORIT Technical Department