



pico® Extra Fine Fine render

PRODUCT PROFILE

Mineral finish render for smooth textures and fine decorative finishes, e.g.: fine, sandpapery texture using fine sponge float; cottage (i.e. imbricated) texture using finishing trowel or spatula; rolled or relief texture using roller or sponge float; or as fine smooth texture-less finish.

- mortar group P II/strength class CS II to DIN V 18550/DIN EN 998-1
- premixed dry mortar with lime/cementitious binder
- low-chromate to TRGS (German Technical Regulations for Hazardous Substances) 613
- fire rating A (non-combustible)
- for indoors and outdoors
- good adhesion
- water-repellent
- vapour-permeable
- weather-resistant
- for manual application
- fine-aggregate
- white or coloured to CLASSIC colour fan

TECHNICAL DATA (DIN EN 998-1, DIN V 18550)	
Bulk density:	1.2 kg/dm ³
Tensile bending strength:	1.0 N/mm ²
Compressive strength:	2.4 N/mm ²
Dynamic elastic modulus:	2400 N/mm ²
Water vapour diffusion resistance factor μ :	14
Thermal conductivity (10°C, dry) $\lambda_{10,dry}$:	≤ 0.47 W/(m·K), for P=50%
	≤ 0.54 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
pico extra fine	0.6 mm	3.0	3.5-4.0	7.5-10.0

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

PREPARATION

Cover or watertightly mask dirt-sensitive elements.

Protect weather-exposed work surfaces from solar radiation and precipitation, hanging nets around scaffolding where necessary.

Remove dust or any contaminating matter impairing render bond using high-pressure water jet. Allow to dry prior to continuing work!

Treat friable existing renderwork, where sufficiently solid underneath, with GRUNDOL Tiefengrund LF deep-penetrating primer. Allow 24 hours drying time prior to continuing work.

Sweep down basecoats such as LUP222, SUPER LUPP, UP210, ROTKALK GRUND etc. to remove dust and, if necessary, pre-treat with Neutrasit primer, diluted 1:1.

For reinforcing mortar such as SM700 or LUSTRO, use WARM-WAND-Grund (WARM WALL primer).

Treat new gypsum renderwork or similar with undiluted Quarzgrund bonding primer. Dust down gypsum renderboard and pre-treat with undiluted ATON Sperrgrund primer sealer.

Pre-treat areas of surface filler with GRUNDOL primer. Two coats of ATON Sperrgrund primer sealer, applied at an interval of 24 hours, are required for renovation/refurbishment contracts or in case of lignin discoloration.

Remove wallpaper and thoroughly wash off wallpaper paste residue, rubbing and dusting down where necessary.

Pre-treat paperless gypsum wall panels with GRUNDOL Tiefengrund LF deep-penetrating primer.

Apply undiluted Quarzgrund bonding primer after min. 24 hours drying time.

Pre-treat MAGNOL magnet render, after 3 days waiting time, with ATON Sperrgrund primer sealer and allow 24 hours drying time prior to application of pico extra fine.

Allow priming coats to dry for min. 24 hours prior to application of pico extra fine.

APPLICATION

For manual application: add 30 kg bag contents to approx. 10 ltr water and stir to lump-free consistency. Re-stir after 15 minutes waiting time. Always mix sufficient mortar for complete area of renderwork or continuously mix additional material.

To produce a fine, sandpappy finish, apply a 2-3 mm coat of pico extra fine, remove fins/protrusions and allow to dry. After drying, apply second coat of pico extra fine to aggregate thickness and, after initial set, overcoat again to aggregate thickness and felt float without additional water using render's own moisture (risk of staining and glossy patches). For smoother finish, rub down with fine sponge or GRIPSI machine with blue or white sponge, if appropriate until mica is visible.

For freely styled textured finishes, apply full-cover coat of pico extra fine to aggregate thickness, apply second coat to required thickness (between 3 and max. 5 mm) and work to desired texture using suitable tools (finishing trowel, roller, brush, sponge float etc.).

Work wet on wet. Do not work renderwork that has stiffened! At most brush down! Always complete visually unified surfaces on same day. pico extra fine may also be used to incorporate reinforcing layer of MARMORIT fine scrim. Apply with 3-5 mm coat thickness and ensure that scrim is completely covered by mortar.

Always apply pico extra fine in two coats. Three-coat work is required to achieve grade Q3 finish. pico extra fine serves as background preparation for bella pica stucco lustro finishes and MAGNOL REFLEXION brilliant-finish projection wall render.

REINFORCEMENT

Apply approx. 5 mm coat of SM700 or Lustro reinforcing mortar over whole surface to new basecoats, after min. 2 weeks waiting time and full drying out, or to suitably prepared existing renderwork. Embed approx. 30 x 50 cm scrim patches in wet mortar diagonally above or below corners of all openings.

Subsequently incorporate MARMORIT scrim over whole surface, with ≥ 10 cm lap at joints. Allow to dry and set for min. 1 week prior to application of pico extra fine. Additional scrim reinforcement is generally required outdoors.

Indoors, for stucco lustro finishes, scrim may be embedded in pico extra fine.

PLEASE NOTE

Rendering works are subject to the requirements of DIN EN 13914, DIN V 18550, DIN 55699 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.

Basecoats and reinforcing mortar shall be fully dried prior to application of pico extra fine.

The renderwork surface may exhibit variations in colour, strength and gloss level or, chiefly in the colder season, suffer calcium carbonate efflorescence due to consistency-, weather- or drying-related factors. These features, however, shall not provide any justification for claims as they stem from uncontrollable physical conditions at the site and their impact will, over time, diminish through natural weathering and subsequent carbonation.

Due to its natural alkalinity, pico extra fine helps to control and inhibit algal and fungal attack. No guarantee can, however, be given for long-term protection against algal and fungal growth.

Vulnerability to attack depends on local factors and the prevailing environmental conditions.

For coloured pico extra fine and also white pico extra fine on WARM WALL systems, finishing with a single coat of MARMORIT SILICONHARZ silicone colour equalization paint in render colour is recommended. pico extra fine may also be treated with LIDURSAN SILAN-HYDROPHOBIERUNG impregnation. Treat heavily exposed surfaces with two coats where necessary.

PLINTH TREATMENT

As mortar group P II/CS II render, pico extra fine may only be applied to plinth areas, subject to approval by client, where risk of splashing is low and impregnation is carried out with LIDURSAN-SILAN-HYDROPHOBIERUNG, and waterproofing to DIN 18195 is provided. DER HAFTPUTZ bonding render or SOCKEL-SM is recommended for plinth areas with paintable felt-floated finish. With WARM WALL systems, incorporate double-layer scrim reinforcement or double layer of scrim in reinforcing mortar. 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.

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

pico extra fine is mixed using stirrer attachment. Horizontal mixers (HM 2000 or equivalent) may be used to premix material for large-scale application.

COMPOSITION

Binder:

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

Aggregate:

Limestone and fine marble sand graded to DIN 4226, 0-0.6 mm

Admixtures:

Water-retaining admixture, water-repellent, where required alkali-resistant colour pigments.

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.

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

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