



KW 220® Roughcast render

PRODUCT PROFILE

Rustic mineral finish render for traditional hand application. Depending on lighting conditions, the roughly textured surface produces vibrant light/shade effects. Also suitable for lightly trowelled/brushed roughcast 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
- water-repellent
- vapour-permeable
- weather-resistant
- rough surface
- for manual application
- white or coloured to CLASSIC colour fan

TECHNICAL DATA (DIN EN 998-1, DIN V 18550)	
Bulk density:	1.8 kg/dm ³
Tensile bending strength:	1.5 N/mm ²
Compressive strength:	3.6 N/mm ²
Dynamic elastic modulus:	4600 N/mm ²
Water vapour diffusion resistance factor μ :	11
Thermal conductivity (10°C, dry) $\lambda_{10,dry}$:	≤ 0.83 W/(m·K), for P=50%
	≤ 0.93 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
KW 220	7 mm	7.0-10.0	12.0	2.5

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

PREPARATION

Cover or watertightly mask dirt-sensitive elements such as timber, glass, metal, stone, brick and flooring.

Protect weather-exposed work surfaces from precipitation. In the event of exposure to sunshine or very warm weather, hang nets around scaffolding until renderwork dries or postpone works until more favourable weather conditions prevail.

Clean down background to remove dust, dirt or any other matter impairing render bond.

Suitable system basecoats include new MARMORIT lime-cement basecoats such as LUP222, SUPER LUPP and UP210, where free from laitance/surface film and slightly roughened.

Basecoats shall be allowed to dry and set prior to throwing on KW220 roughcast render.

Also suitable are reinforcing mortars such as SM700 and Lustro, as well as all lime-cement mortars in medium strength range of mortar groups P II and P III exhibiting water-repellent properties to DIN EN 998-1, after appropriate drying time.

Where necessary, in warm, windy weather, pre-wet basecoat on preceding day. To WARM WALL systems, apply min. 7 mm reinforcing mortar coat using SM700 or Luströ and roughen with fine broom.

APPLICATION

Add 30 kg bag contents to approx. 7 ltr water and mix to lump-free consistency (approx. 2-3 minutes) in drum-type mixer or with stirrer to produce thin, plastic, though sag-resistant mortar.

Always mix sufficient mortar for complete area of renderwork or continuously mix additional material and blend with existing mortar.

Apply KW220 to aggregate thickness, working continuously from top to bottom, platform by platform. Avoid misses as far as possible or immediately throw on to fill in.

Throwing on later, even after only short delay, may produce variations in colour!

To avoid application-related variations in texture, connected surfaces shall always be rendered from corner to corner without interruption and, where possible, by same operative.

REINFORCEMENT

On facades, embedding of scrim in basecoat over whole surface or incorporation of scrim reinforcement using SM700 is recommended for composite masonry and larger render thicknesses.

PLEASE NOTE

Rendering works are subject to the requirements of DIN EN 13914, DIN V 18550, DIN 55699 and DIN 18345/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 KW220 or following coats in accordance with manufacturer's specifications.

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, in no way impair quality and shall not provide any justification for claims in respect of the material as they stem from uncontrollable physical conditions at the site and their impact will, over time, diminish through natural weathering and subsequent carbonation.

To prevent any such weather-related colour variations from giving rise to any claims, wherever possible, always complete visually unified, if separate, surfaces on same day. This is particularly important for terraced house fronts etc.

SILICONHARZ silicone colour equalization paint may be used to even out colour variations. Apply to whole surface where necessary. As coloured material may be subject to variations in drying, a single coat of colour equalization paint in render colour over whole surface is recommended.

Due to its natural alkalinity, KW220 helps to control and inhibit algal and fungal attack. No guarantee can, however, be given for long-term protection against soiling/contamination, e.g. through algal and fungal growth. Vulnerability to attack depends on local factors and the prevailing environmental conditions.

PLINTH TREATMENT

KW220 may be carried down over plinth render to approx. 5 cm above ground level provided risk of splashing is low.

After drying out, all rendered surfaces in contact with ground or gravel beds shall be waterproofed/protected against moisture 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 skin irritation. Risk of serious eye damage. 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

MARMORIT KW220 roughcast render is not suitable for application by rendering machine. Given the high proportion of 7 mm aggregate, it may be efficiently mixed with water in drum-type mixer.

COMPOSITION

Binder:

White Portland cement to DIN EN 197, hydrated lime to DIN EN 459.

Aggregate:

Quartz and limestone graded to DIN 4226, 0-7 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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