

akurit RP RAPID MG

Renovation plaster, machine-processable

rapid curing, highly economical, lightweight repair plaster

Lightweight plaster mortar LW CS IV acc. EN 998-1

- Can be laid with ceramic surfaces after approx. 12 hours
- Layer thickness 5 – 40 mm
- Tension-free curing
- RAPID technology with effective crystalline water binding
- adhesive-enhanced



Applications

- for smoothing, improving and skimming wall surfaces
- Suitable for large tiles and slabs
- suitable for domestic kitchens and bathrooms
- Not suitable for permanently wet and exterior areas
- for interior use

Properties

- can be spread thinly to start with
- mineral
- vapour-permeable
- hydraulically curing and hardening
- high yield
- behaviour in fire A1 - non-flammable

Composition

- Special cements
- finely fractionated, crushed limestone sand
- Mineral lightweight aggregates
- additives for regulating and improving workability and product properties
- additives for improving bonding to the subsurface

Substrate

Suitable substrates

- Concrete
- Cement stone
- sand-lime bricks
- Masonry or wall elements made of lightweight concrete
- Aerated concrete
- Solid brickwork
- Lightweight vertical coring bricks, unfilled or with insulating material filling
- old load-bearing, cement-bonded plasters

Condition / Testing

- The subsurface must be even, dry, clean, load-bearing, absorbent and free of adhesion impairing residues, efflorescence and sinter skins.
- For assessing the plaster primer, VOB/C DIN 18350, Section 3, DIN EN 13914-1/13914-2 as well as the plaster standard DIN 18550-1/18550-2 should be observed.
- The load-bearing capacity, particularly of old plaster and old paintwork, must be properly tested (e.g. by carrying out a pull-out test or cross-cut test).

Pretreatment

- Non-load-bearing coatings must be completely removed.
- Existing gypsum-based plaster must be completely removed down to the masonry.
- Cement-based old plaster, also with tile adhesive residue, can be gone over with filler.
- On existing substrates during repair or renovation, priming with akurit GTA Acrylate Deep Primer is always required.
- Strongly absorbent plaster bases such as aerated concrete or brick masonry should be primed.

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Processing

Temperature

- Do not use or allow to dry and harden in air, material or substrate temperatures of less than +5°C, in the case of expected night time frost or at temperatures of over +25°C, in direct sunlight, extremely heated substrates and/or in strong wind.

Mixing / Preparing / Processing

- Suitable for processing by hand, or with conventional plastering machines.
- When machine-processing: Adjust the amount of water accordingly to obtain a workable consistency.
- Keep work interruptions to a maximum duration of 15 to 20 minutes.
- If the work is interrupted for longer periods, then clean the plastering machine and mortar hoses.
- When mixing manually, first place the quantity of water specified in the technical data in a clean container and then sprinkle in dry mortar. Use clean tap water.
- Use a suitable agitator to mix the material until smooth and free of lumps. Leave to develop for a moment and then mix again.
- Do not mix with other products and/or other substances.

Applying / Processing / Assembling

- Apply material in layer thickness of 5 – 40 mm.
- On small, locally restricted areas, the maximum permissible thickness of the applied layer is 50 mm.
- The minimum layer thickness for working onto existing areas may be lower in small areas.
- Rework is possible after about 30 minutes, depending on the temperature.

Processing time

- approx. 10-20 minutes
- The stated times apply for a temperature of +20°C and relative humidity of 65%.
- The processing time will be extended at low temperatures and/or high air humidity and shortened at high temperatures and/or low air humidity.
- Mortar that has already started to harden must never be thinned down with additional water, remixed or applied.

Drying / Hardening

- Protect from drying out too quickly as a result of sun, wind or draughts.

Subsequent coating / workability

- Suitable as a base plaster beneath ceramic tiles and panels with a weight per unit area of up to 50 kg/m², including adhesive.
- Ready for laying ceramic coverings after approx. 12 hours.
- In moist and wet domestic rooms, a composite sealant is to be provided under tiles and slabs in water exposure category W1-I pursuant to DIN 18534 (moderate effect).
- Composite waterproofing such as strasser DA-P Dispersion Waterproofing Premium, strasser VAB Composite Waterproofing Membrane or strasser PA PU Waterproofing can be applied after approx. 24 hours.
- Natural stone coverings that are insensitive to moisture and/or discolouration can be laid after 24 hours.
- In the case of natural stone coverings that are sensitive to moisture and/or discolouration, wait for the substrate to dry completely. A standing time of at least 1 day per mm plaster thickness must be observed.
- All types of mineral finishing plaster and organically bound plasters, such as silicate, silicon resin or emulsion plasters, may be applied as finish plaster.
- The plaster surface must be sufficiently hard and completely dried through before coatings are applied. You must wait at least one day per mm of plaster thickness.

Tool cleaning

- Clean all tools and equipment with water immediately after use.

Notes

- If tiles are to be laid on the surface, then strike off the plaster surface evenly and cleanly using a rod/plasterer's float. Do not smooth or felt the surface of the plaster.
- Carefully cover adjacent surfaces and components (e.g. windows, window sills, etc.). Wash off contamination immediately with water.
- In interior rooms, start up the heating system slowly to increase the room temperature gradually.

Packaging

- 25 kg/sack

Storage

- Store sacks appropriately and in dry conditions on pallets.
- If stored in its original packaging, the product will keep for at least 12 months from the date of manufacture.

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Quantity required / Yield

- consumption: approx. 11 kg/m² per 10 mm plaster thickness
- yield: app. 22 l fresh mortar per 25-kg-Bag
- yield: app. 24 l fresh mortar per 25-kg-Bag

Technical Data

Product type	Lightweight plaster mortar LW
Category	CS IV
Set mortar bulk density	approx. 1.1 kg/dm ³
Compressive strength	≥ 6.0 N/mm ²
Adhesive tensile strength	≥ 0.08 N/mm ²
Capillary water absorption	W _{c0} according to EN 998-1
Water vapour permeability μ	5/20 (table value EN 1745)
Thermal conductivity λ_{10,dry,mat.} for P=50%	≤ 0.45 W/(mK) (table value EN 1745)

All data are average values that were determined under laboratory conditions according to relevant test standards and application tests. Deviations are possible under practical conditions.

Safety and disposal instructions

Safety

- This product produces an alkaline reaction when it comes into contact with moisture/water. Therefore ensure that skin and eyes are protected. If it should come into contact with the skin or eyes, rinse them thoroughly with water. See a doctor immediately if it comes into contact with the eyes.
- Follow further instructions in the safety data sheet.

GISCODE

- ZP1 (products containing cement, low-chromate)

Disposal

- Dispose of the material in accordance with the official regulations.
- Completely empty and recycle the packaging.
- Dispose of hardened product in accordance with the local regulations. Do not allow to enter the sewer system. Dispose of the hardened product in the same way as concrete waste and slurries. Waste code according to the Ordinance on the European Waste Catalogue depending on the origin: 17 01 01 (concrete) or 10 13 14 (concreteste and concrete slurries).

General notes

This information sheet provides only general recommendations. Should you have any queries relating to a specific application, please contact our technical sales advisor or call our hotline: +49 541 601-601. Since natural raw materials are used, the values and properties described may vary somewhat. All of the details given are based on our current knowledge and experience and on the assumption that the materials are professionally applied and used for their normal purpose. All of the details are non-binding and do not release users from their duty to undertake their own tests to ensure suitability for the intended application. Due to the effects of different weather, processing and construction site conditions, no guarantee can be given for the general validity of all details. We reserve the right to make changes as a result of further development of the product and applications engineering. The general rules for construction engineering, the valid standards and guidelines, and the technical working guidelines must be observed. The publication of this technical data sheet renders all previous editions of this data sheet void. Please obtain the latest information from our website.