

Product Description

ArmaReno is an high-grade all-round mortar, applicable on interior surfaces as:

- Decorative coat to produce concrete effect
- Thin-layer adhesive plaster
- Renovation mortar (base coat) for revising sound, existing render and plaster surfaces
- Felted finishing render for smoothed surfaces, for sponging up (not on plinth, subjected to splashing water)

Properties

Additives for hydrophobic effect provide elegant application and high adhesion

Weather-proof, water-repellent to DIN V 18 550

Fire behaviour: Non-combustible or hardly combustible if used on and per the structure of ETICS/EIFS

Mortar class PII as per DIN 18550-1, lime-cement-bound dry mortar premix, standard plaster mortar CS III as per DIN EN 998-1

Extremely low tension due to added fibres

Easy to apply, either manually or by machine

Excellent working properties (pliable) for use with machines

High fresh mortar stability while applying

Long open-time for application

Ecologically compatible

Technical Data

Density: Approx. 1.5 kg/dm³

Heat conductivity: 0.78 W/m.K

Diffusion-equivalent air layer thickness sd H₂O: Approx. 0.05 m as per DIN EN ISO 7783 - when applied in intended thickness

Compression strength: 5.3 N/mm²

Coefficient of water absorption: ≤ 0.1 kg/(m² · h^{0.5}) as per DIN EN 1062 – Class W3 (low)

Adhesive tensile strength on EPS high-density foam board: ≥ 0.08 N/mm²

Consumption

Reinforcing coat (base coat): Approx. 1.3 - 1.5 kg/m² per mm of layer thickness

Renovation mortar: Approx. 1.3 - 1.5 kg/m² per mm of layer thickness

Felted finishing render for smooth surfaces: Approx. 4.0 - 4.5 kg/m² for a layer thickness of 3 mm

This indication does not take into account usage for spilling or loss on site. The figure may also vary according to substrate or application conditions. The exact rate of consumption is best established by a trial application on site.

Colour

As per the colour pack

Packaging

25 kg bag

1 L colour pack

Storage

Store in a dry and from moisture protected area, cool, frost-free and protected against exposure to direct sunlight.

Shelf life: Approx. 12 months in tightly closed, original packaging.

Technical Information No. 0101 – Issue: Dec 2020

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Suitable Substrates

The substrate must be even, clean, dry, solid, sound/stable, adherent, and free from all substances that may prevent good adhesion. Mask windowsills and attached parts. Cover glass, ceramics, clinker, natural stone, varnished and anodised surfaces thoroughly.

Substrate Preparation

Masonry, concrete or sound existing coatings must be clean, dry, adherent, sound, solid, stable, and free from all Substances, which may prevent good adhesion, e.g. formwork oil. Remove mortar burrs and all unsound, flaking/peeling off existing paints and textured renders/plasters. Chip off all render/plaster areas showing cavities (local separation) and repair to match the surrounding surface. Clean highly absorbent, sanding or chalking surfaces thoroughly up to the solid substrate level. Render/plaster surfaces showing cracks can only be treated in a safe way, when further crack movement can be excluded without fail.

Preparation of Material

ArmaReno is applicable with all common types of flow mixers, spiral pumps and plaster machines.

For manual preparation add approx. 5 - 6 l cold tap water - as required per 25 kg bag - into the mortar bucket. Pour the mortar premix into the bucket while stirring thoroughly with a suitable low-speed electric agitator until the mixture is free of lumps. While stirring add the colour pack and mix the slurry well until the colour is homogenous. Leave to stand for approx. 5 minutes, and then stir again. If necessary, adjust to working consistency with a small amount of tap water. Do not prepare more mortar than can be applied within 2 hours. Depending on weather conditions, pot life for manually mixed material is approx. 2 hours. Maximum life in the hose for mechanic conveyance: 60 minutes. Already hardened (slightly stiff) material must not be made pliable by adding water and cannot be used.

Method of Application

As Renovation Mortar (base coat):

Use **ArmaReno** according to substrate requirements for:

- Treatment of partial defects
- Surfacing and levelling of existing textured render/plaster coatings
- Revision of full surfaces (renders/plasters or masonry). The embedding of reinforcement fabric is recommended

Application method: Manually or by machine and subsequent trowelling

As Decorative Finish:

Prime the substrate with a suitable Caparol Primer at first where necessary, depending on the substrate absorbency and weather conditions during application. Apply **ArmaReno** to the stable substrate (basic render of cement mortar group PII or mineral reinforcement layer) in a thickness of approx. 2-3 mm. While stiffening the mortar may be smoothed with a wet sponge trowel (sponging up). On external walls an additional paint coat is obligatory after curing.

As Felted Finishing Render (for smoothed surfaces):

If **ArmaReno** to be used on ETICS/EIFS, additionally to the intermediate reinforcement layer the finishing render coat has also to be reinforced. For finishing render coat apply **ArmaReno** (2-3 mm thick) and embed the **Capatect Reinforcement Mesh CT 650** or **CT 653**. Allow to cure, then apply a second coat of **ArmaReno** in the same thickness and smooth it with a wet sponge trowel during the stiffening process. If **ArmaReno** to be used on mineral plastered surfaces, only apply a coat of **ArmaReno** in the thickness from 2-3mm and smooth the material with a wet sponge trowel during the stiffening process. On external walls an additional paint coat is obligatory after curing.

Please note: Fine shrinkage cracks of smoothed surfaces, due to binder accumulation (forming a sintered layer), cannot be excluded. This is no deficiency and does not entitle for any claims.

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New renders can be coated after a sufficiently long idle time, normally 2 weeks at 20 °C and 65 % RH. Adverse weather conditions, e.g. influenced by wind and rain, may extend the idle time. An additionally applied priming coat of a suitable **Caparol Primer** paint minimises the risk of efflorescence and the render may be coated after a waiting time of 7 days. Apply two finishing coats of a suitable **Caparol Façade paint**.

Application Temperature

Processing temperature should be within +5 °C to +35 °C during application and curing for product, substrate and ambient air. Do not apply on sun heated substrates, during strong wind, fog or rain, high relative humidity or imminent rain and frost.

Drying / Drying Times

At 20 °C and 65 % RH, the reinforcement coat is surface dry after 24 hours.

Tool Cleaning

Clean tools/equipment with water, immediately after use.

Advice

Cover the scaffolding with tarpaulins during the curing phase, if necessary to protect the surface against heat, dust and rain.

Example for Machine Equipment

Strictly follow equipment manufacturer instructions!

Reference values:

Hoses: Primary hoses, interior Ø 35 mm, 13.3 m each; end hose, interior Ø 25 mm, 10.0 m

Max. Delivery Range: Approx. 50 m (should be optimised depending on the conditions on site and temperature)

Electric Supply: 400 V rotary current / 16 A (building current distributor with FI-protection switch)

Water Supply: 3/4" hose, minimum 2.5 bar water pressure is required for the running machine

Flow of Water: Approx. 330 l/hour for bonding. Adjust the desired consistency by the fine-regulating valve in the water-fitting of the mixer

Spraying Unit: Nozzle Ø 10 mm

Note: Rinse hoses prior to regular application with lime slurry or lime paste.

Disposal

Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local authorities. Attention should be made to removing wastage from site in compliance with standard construction site procedures.

Protective Measures / Safety Advice

The mineral powder interacts with water to an alkaline reaction and should only be used by trained operatives.

Can cause skin irritation

Can cause serious eye damage

May cause respiratory irritation

Keep out of reach of children. Wear suitable protective gloves, goggles and face protection. Do not breathe dust. Do not get in eyes, on skin, or on clothing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Material contains Portland cement.

Safety Data / Risk and Transportation Markings

Danger symbol: Xi – "Irritant". Material contains cement. Further information: See Material Safety Data Sheets.

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ArmaReno

High Grade All Round Mortar Applicable for interior surfaces which gives the walls sleek and elegant concrete effect



Technical Assistance

As it is impossible to list herein the wide variety of substrates and their specific problems, please request our technical assistance in case of queries.

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