



ARDUCRETE B12

Rendering and finishing compound

Features:

- Provides finish which resembles concrete in both texture and appearance
- Ideal for repair, smoothing and levelling walls and ceilings of exposed concrete, pre-cast concrete, rough brickwork and cement/sand rendering
- For internal and external use
- Just add water for an easily worked slump free mortar
- Apply up to 5mm in a single application, mix with sharp sand for thickness greater than 5mm
- Sufficiently dry after 24 hours to receive lime resistant paint coatings

Description

Arducrete B12 will provide a high quality concrete finish with a minimum of both labour and material costs. Arducrete B12 is a cement-based material and therefore hardens to a finish that resembles concrete in both texture and appearance. Arducrete B12 is ideal for the repair, smoothing or levelling of walls and ceilings of exposed concrete, pre-cast concrete, rough brickwork and cement/sand rendering. Arducrete B12 may be applied internally or externally on dry or damp surfaces and is ideal for filling of cracks, voids and surface irregularities as well as for the resurfacing of internal aerated concrete surfaces. Arducrete B12 is a grey powder consisting of special cements and high quality synthetic resins which, when mixed with water, produces an easily worked, slump-free mortar. This mortar hardens by hydration and drying to a virtually tension-free mass which is unaffected by water and is weatherproof whilst still retaining a breathing surface. Arducrete B12 can be used with the addition of Ardion 100 mortar admix to produce a mortar with increased strength, elasticity and adhesion (see Ardion 100 data sheet).

Preparation

Arducrete B12 mortar can be applied to dry or moist surfaces if they are firm and free of dust, dirt, oil and other barrier materials. The use of ARDEX Degreaser is recommended for the removal of oil, waxes, etc. from the substrate. Any residues of existing surface coatings, renderings, etc., which are not firmly bonded to the substrate must be removed prior to the application of Arducrete B12. Cracks in existing renderings should be bridged with glassfibre or other suitable material. Settlement cracks can be filled with Arducrete B12 mortar, however, there is no guarantee that cracks of this kind caused by structural movement can be eliminated. Small cracks should be enlarged so that a better contact of the material is obtained. Metal components must be given adequate corrosion protection.

Mixing

To the required amount of water in a clean mixing container add the powder whilst stirring thoroughly until a creamy, slump-free mortar is produced. The mixing proportions are:

22kg Arducrete B12 powder into 7¹/₂ litres of water

i.e. approximately 2¹/₂ parts powder to 1 part water by volume.

The use of an ARDEX mixing paddle with a 10mm chuck slow speed (600 - 1000 r.p.m.) electric drill makes light work of mixing. The mixed Arducrete B12 mortar is workable for approximately 45 minutes at normal temperatures (20°C). This time will be extended at lower and shortened at higher temperatures.



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Application

Arducrete B12 can be applied up to 5mm thick in one operation with a steel trowel, pressing the mortar well into the surface to obtain good adhesion. For single applications exceeding 5mm use Arducrete B12 mixed with one third of its volume in dry sharp sand - particle size 0-5mm. For particularly rough applications, i.e. thick renderings, it is recommended to mix the Arducrete B12 mortar with an equal volume of dry aggregate 4mm-8mm grading. Holes and extensive surface depressions should first be levelled with the aggregate filled mortar and upon hardening the entire surface may be coated and smoothed with 'neat' Arducrete B12 mortar. Arducrete B12 hardens in about 2 hours at normal temperatures so that a further treatment such as smoothing/over trowelling is then possible. In colder conditions with thicker applications this period of time will be extended. When dry Arducrete B12 can, if required, be painted over with any cement or lime resistant paint thickness coatings.

Areas which are only repaired in places with Arducrete B12 must be fully primed prior to coating in order to achieve uniform drying of the subsequently applied paint.

Arducrete B12 should not be applied at temperatures below 5°C.

Always in doubtful cases we recommend a trial application.

Coverage

Approximately 1.2kg of Arducrete B12 powder/m²/mm

i.e. 6m² at 3mm per 22kg bag.

Packaging

Arducrete B12 is packed in paper sacks incorporating a polyethylene liner - net weight 22kg.

Storage

Arducrete B12 powder has a storage life of not less than 12 months if stored in dry conditions.

Precautions

Arducrete B12 is considered non-hazardous in normal usage. The presence of cement in the product gives an alkaline mortar which may cause some local irritation if prolonged contact with skin takes place. Care should be taken to avoid inhalation or ingestion of dust and prevent contact with the eyes.

Technical Data

Bulk density of powder	approx.	1.1kg/litre
Weight of fresh mortar	approx.	1.7kg/litre
Initial Set (Vicat)	approx.	³ / ₄ hour
Final Set (Vicat)	approx.	2 hours



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Compressive strength (DIN 1164)

After 3 days	5.6 N/mm ²
After 7 days	8.4 N/mm ²
After 28 days	13.8 N/mm ²

Tensile Bending strength (DIN 1164)

After 3 days	2.3 N/mm ²
After 7 days	2.6 N/mm ²
After 28 days	4.6 N/mm ²

Ball Pressure Hardness (Brinell) on 10mm thick layer

After 1 day	3.9 N/mm ²
After 3 days	12.2 N/mm ²
After 5 days	15.7 N/mm ²

Alkalinity

pH in hardened conditions approximately 11.

ARDEX materials are also manufactured in Australia, Austria, Denmark, Germany, Spain, U.S.A., and represented throughout the World.

NOTE: The information supplied in our literature or given by our employees is based upon extensive experience and, together with that supplied by our agents or distributors, is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

