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PRODUCT DATA SHEET

ARDEX K 300

Fast Setting Concrete Resurfacer

Features

Suitable for internal and external applications

Cost effective solution for smoothing rough or damaged concrete

Fast setting - walkable after 4 hours

Rapid hardening - can be trafficked after 48 hours

Easy to mix and apply - no special tools required

Level uneven surfaces

Can be 'broom finished' for non-slip surface



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ARDEX K 300

Fast Setting Concrete Resurfacer

DESCRIPTION

ARDEX K 300 Fast Setting Concrete Resurfacer is a special fast setting cement-based product designed to smooth and level rough and damaged concrete surfaces in external and internal situations. ARDEX K 300 is a grey powder consisting of special cements, graded aggregates and high quality synthetic resins. When mixed with water, a fluid mortar is produced which sets within 2 hours and can normally be walked on after approximately 4 hours at 20°C. ARDEX K 300 can be applied from 4mm to 15mm in thickness in one operation and up to 25mm with the inclusion of a suitably graded aggregate. The set and hardened ARDEX K 300 is usually ready to receive normal traffic after 48 hours at 20°C.

USE

ARDEX K 300 will smooth and level concrete surfaces such as balconies, patios, domestic driveways, garages, walkways and other concrete surfaces exposed to normal foot and rubber wheeled traffic. ARDEX K 300 can also be used for filling holes and repairing damaged floors.

NOTE: ARDEX K 300 is not recommended for heavy industrial floors, public highways or traffic with solid or metal wheels. Do not use ARDEX K 300 in swimming pools and areas subject to permanent standing water. Do not apply ARDEX K 300 over asphalt or tarmacadam surfaces. The hardened ARDEX K 300 should be protected from spillages and materials that damage concrete surfaces. If required, dried ARDEX K 300 can be painted.

SURFACE PREPARATION

All concrete surfaces should be mature and at least 6 weeks old and must be hard, sound, thoroughly clean, free of all oil, grease, curing compounds and other barrier materials.

Use ARDEX DGR to remove oil, grease or similar contaminants and rinse well. All concrete surfaces without a sufficient mechanical key must be prepared by mechanically roughening, wire brushing, scabbling or shot blasting the surface as necessary to ensure good adhesion. Vacuum clean the prepared surface to remove all dust and debris, and ideally wash the surface using high pressure water jet equipment. All cracks in new and old concrete should be repaired to inhibit cracking in the ARDEX K 300.

Any structural joints in the substrate must be carried through the ARDEX K 300. Concrete surfaces must be pre-wetted with water to prevent air bubbles and pin holes appearing in the applied ARDEX K 300. Absorbent concrete surfaces should be saturated before application begins. Any puddles or surface water should be removed with a broom so that excess water is not incorporated in the mortar during application. In doubtful cases a trial application is recommended.

MIXING

In a clean mixing container add the powder to the required amount of clean water whilst stirring thoroughly until a lump free mortar is produced. The mixing proportions by volume are approximately:-
4 parts ARDEX K 300 powder to
1 part clean water.
A 25kg bag requires 4-4¹/₄ litres.

Do not use excess water as this will reduce the strength of the set and hardened mortar.

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.

ARDEX K 300 can also be mixed by hand or in a free fall mixer. The mortar should be applied within 30 minutes at 20°C. This time is extended at lower and reduced at higher temperatures.

NOTE: When using a free fall mixer remove the mortar as soon as it is fully mixed. Do not overload the mixer and do not mix more mortar than can be applied and finished off within the working time.

APPLICATION

Pour the mixed ARDEX K 300 onto the prepared damp concrete surface. The mixed mortar will flow out and self-smooth during the first 10 minutes of its 30 minutes working time. Spread the mortar using a steel trowel or float. For larger areas use the ARDEX gauging tool with thickness height adjustment to spread the mortar. A long handled ARDEX smoothing trowel can be used to simplify the finishing operation. See ARDEX Tool Catalogue for details. The applied ARDEX K 300 surface can be left with a trowel finish or alternatively, to create a more non-slip finish, the surface may be 'broom finished' once the initial set has occurred (approximately 40 minutes under normal conditions). If a further layer of ARDEX K 300 is needed to make up the required thickness this can be applied as soon as the first layer is walkable.

NOTE: Thickness of combined layers should not exceed 25mm. Once set, freshly applied ARDEX K 300 should be protected from adverse climatic conditions e.g. rapid drying, rain, frost, etc., until hardened. Apply at temperatures above 5°C.

THICKNESS

ARDEX K 300 can be applied neat from 4mm to 15mm thick. For thicknesses over 15mm up to a maximum of 25mm, for filling deep depressions, pot holes, etc., incorporate up to a 1/2 volume of small aggregate, e.g. 3mm or 6mm single sized into the mixed ARDEX K 300 mortar. Mix the ARDEX K 300 as described and add the aggregate without further addition of water.

COVERAGE

Approximately 1.8kg ARDEX K 300 powder/m²/mm, i.e. approximately 3.5m² at 4mm thickness per 25kg bag.

PACKAGING

ARDEX K 300 is packed in paper sacks incorporating a polyethylene liner - net weight 25kg.

STORAGE AND SHELF LIFE

ARDEX K 300 contains a reducing agent to control the level of Chromium VI when mixed prior to use.

ARDEX K 300 must be stored in unopened packaging, clear of the ground in cool dry conditions and protected from excessive draught. If stored correctly, as detailed above, and used within 12 months of the date shown on the packaging, the activity of the reducing agent (added to control the level of soluble Chromium VI) will be maintained and this product will contain, when mixed with water, no more than 0.0002% (2ppm) soluble Chromium VI of the total dry weight of the cement content of this product. Use of the product after the end of the declared storage period may increase the risk of allergic reaction.

PRECAUTIONS

ARDEX K 300 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 the skin takes place. Care should be taken to avoid inhalation or ingestion of dust and prevent contact with the eyes.

For further information consult the relevant health and safety data sheet.

TECHNICAL DATA

Bulk density of powder	approx. 1.5kg/litre
Weight of fresh mortar	approx. 2.1kg/litre
Initial Set (Vicat)	approx. 40 minutes
DIN 1164	
Final Set (Vicat)	approx. 2 hours
DIN 1164	

Compressive Strength (DIN 1164)

After 28 days 20 N/mm²

Tensile Bending Strength (DIN 1164)

After 28 days 6.0 N/mm²

Ball Pressure Hardness (Brinell)

After 28 days 65 N/mm²

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.