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PRODUCT DATA SHEET

ARDEX A 35 MIX

Rapid Drying Pre-Blended Screeding and Screed Repair Mortar

Features

Cement and sand included – just add water

For new screeds or repairs to existing screeds

Rapid hardening – walkable in 3 hours

Rapid drying – receives floorcoverings after 24 hours or 4 hours,
when smoothed with ARDEX A 55, regardless of thickness

Conforms to EN13813 CT-C35-F6

Test with BRE screed tester after 6 hours

Apply as bonded, unbonded or floating screed

Rapid strength development

Rapidry Formula



What is the
Rapidry Formula?

It is the ability of the mortar to totally
bind the water used for mixing.



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ARDEX A 35 MIX

Rapid Drying Pre-Blended Screeding and Screed Repair Mortar

DESCRIPTION

Made with ARDEX A 35 rapid hardening and rapid drying cement with the unique ARDEX Rapidry Formula. ARDEX A 35 MIX is a blend incorporating ARDEX A 35 cement and graded sands for the production of rapid setting and drying floor screeds and large repairs to existing cement/sand screeds. Screeds and repairs made using ARDEX A 35 MIX will exceed the minimum compressive and tensile bending strength requirements after only one day compared to those of ordinary cement/sand screeds after 28 days. Also, irrespective of thickness, ARDEX A 35 MIX screeds and repairs will be dry enough to receive floorcoverings after 24 hours. ARDEX A 35 MIX is suitable for the production of bonded, unbonded and floating floor screeds. Bay divisions and expansion joints should be incorporated as for normal cement/sand screeds, taking into account the advice given in the Code of Practice for the floor finish applied.

The mortar is mixed and applied in exactly the same way as normal cement/sand mortar, except that the working time is reduced to approximately 60 minutes at 20°C. Screeds and repairs produced with ARDEX A 35 MIX can be walked on 3 hours after application and are dry enough to receive floorcoverings after 1 day at 20°C. However, when ARDEX A 35 MIX is smoothed with ARDEX A 55 Ultra Rapid Drying Self-Levelling Compound, vinyl and textile floorcoverings may be applied in as little as 4 hours. **NOTE:** Where the concrete base is insufficiently dry, or is direct to ground without an effective protection from rising damp, the ARDEX A 35 MIX must be laid over an effective damp proof membrane, e.g. ARDEX DPM for bonded screeds, or a suitable sheet membrane for unbonded or floating screeds.

USE

ARDEX A 35 MIX is used for repairs and the production of bonded, unbonded and floating screeds in internal situations where early foot traffic is required and where rapid drying is essential, e.g. to allow floorcoverings to be laid after one day, or in as little as 4 hours when smoothed with ARDEX A 55. ARDEX A 35 MIX screeds are not recommended on ground supported concrete floor slabs without an effective damp proof membrane, for use as a wearing surface, or in wet locations. See the SYSTEMARDEX Commercial Flooring brochure for further applications.

THICKNESS

When used as a repair mortar ARDEX A 35 MIX can be applied to the full thickness of the existing screed. When applied as a new screed ARDEX A 35 MIX should be applied at the following thicknesses:

Minimum 15mm, (design thickness up to 40mm) for bonded screeds.

Minimum 40mm for unbonded screeds.

Minimum 75mm for floating screeds, 65mm in lightly loaded (domestic) locations.

SUBSTRATE PREPARATION - SCREED REPAIRS

Repairs should be cut back vertically to sound screed material. The cut edges are treated with a slurry of the ARDEX A 35 MIX prepared using ARDEX P 51 diluted with an equal volume of water and mixed to a bonding slurry consistency. ARDEX A 35 MIX should be compacted into the grouting slurry while it is still wet and workable, fresh in fresh.

SUBSTRATE PREPARATION - SCREEDING

For unbonded screeds it is good practice to ensure that the concrete slab surface is reasonably true and flat prior to applying a separating or damp proof membrane, such as ARDEX DPM. For bonded screeds, the concrete surface must be dry and should be mechanically prepared to expose the coarse aggregate and be free of all barriers to adhesion. If the concrete is not dry, 2 coats of ARDEX DPM may be used

prior to applying the ARDEX A 35 MIX 'fresh in fresh' in a priming layer of ARDEX R 3 E or a third coat of ARDEX DPM.

NOTE: For bonding slurry preparation, see repairs above.

MIXING

Mix to a screed mortar consistency using the recommended water content per bag. If a mixer is used it should be of a pan, trough or other forced action type. Normal 'free-fall' mixers are not suitable for mixing screed mortars. Use clean equipment and do not use other cements or screed additives in the mix.

WATER CONTENT

Add sufficient water to obtain a workable mix. The water requirement will normally be 2 litres per 25kg bag of ARDEX A 35 MIX, which is equivalent to approximately 1 volume of water to 7 volumes of powder. When a sample of mortar is squeezed in the hand the sample should retain its shape and not crumble, the hand being left slightly moist. When a sample is compacted on the base, no film of water should form on the surface.

To achieve rapid drying and strength development, as stated, not more than two litres should be added per 25kg bag of ARDEX A 35 MIX.

APPLICATION

The working time of the mixed mortar is approximately 60 minutes at 20°C, therefore mixing, placing, compaction and trowelling off must proceed without delay. The amount of mortar mixed and the area to be screeded should be limited so that trowelling off and finishing can be completed within the working time. Where a new bay is laid against a set and hardened screed it is recommended that such daywork joints are vertical and treated with the grouting slurry and may be tied together with steel reinforcement. Apply ARDEX A 35 MIX at temperatures above 5°C.

SURFACE FINISH

For fixing ceramic tiles and quarry tiles, etc., the screed should be finished with a wood float. Prior to laying thin floorcoverings e.g. vinyl sheet, a very smooth surface may be obtained using ARDEX A 55 or ARDEX K 13. Alternatively prime the ARDEX A 35 MIX with ARDEX P 51 and apply ARDEX K 15 or ARDEX K 70 self-levelling sub-floor smoothing compounds.

NOTE: Screeds are not designed as wearing surfaces and the screed surfaces should be given adequate protection once dry, against damage, wear and contamination during subsequent building operations. Protective covering will also minimise any curling and lipping at joints in unbonded screeds.

COVERAGE

Approximately 1.85kg/mm².

i.e. approximately 0.5m² at 25mm thick per bag.

PACKAGING

ARDEX A 35 MIX is packed in paper sacks incorporating a polyethylene liner – net weight 25kg.

STORAGE AND SHELF LIFE

This product must be stored in unopened packaging, clear of the ground in cool dry conditions and be protected from excessive draught. If stored correctly, as detailed above, the shelf life of this product is 12 months from the date shown on the packaging.

PRECAUTIONS

ARDEX A 35 MIX is considered non-hazardous in normal usage. The presence of cement in the product gives an alkaline mortar, which may cause some 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.

TECHNICAL DATA

Weight of fresh mortar	approx.	2kg/litre
Working time at 20°C	approx.	60 minutes
Walkability 20°C	approx.	3 hours

Compressive Strength (DIN 1164)

After 1 day	25.0 N/mm ²
After 3 days	32.0 N/mm ²
After 28 days	40.0 N/mm ²

Tensile Bending Strength (DIN 1164)

After 1 day	5.0 N/mm ²
After 3 days	6.0 N/mm ²
After 28 days	7.0 N/mm ²

Drying Time – After 24 hours suitable to receive vinyl and ceramic tiles to bonded, unbonded and floating screeds; after 4 hours suitable to receive PVC floorcoverings and carpets when smoothed with ARDEX A 55.

Application on a floor heating system:

When an ARDEX A 35 MIX screed has been laid on a hot water floor system 3 days should be allowed to elapse before heating up the screed gradually to a temperature of 25°C and maintained for a further 3 days. The maximum floor temperature should then be used and maintained for a further 4 days. In doing so draughts must be avoided. The floor should then be allowed to cool down to room temperature (above 15°C) before laying floorcoverings.

Soundness (BRE Screed Test)

Annex D and E of BS 8204-1:2003 contains advice on the use of this in situ crushing resistance test on bonded, unbonded and floating screeds. The installed ARDEX A 35 MIX can normally be tested after 6 to 24 hours using the BRE screed tester, if required. The depth of an indentation of a correctly mixed and compacted screed should comply with the requirements of the floor finish and category of use.

Moisture testing of ARDEX A 35 MIX cement/sand screed.

ARDEX A 35 MIX is specially formulated and quality controlled to ensure that it is sufficiently dry so that any floorcovering can be applied to an ARDEX A 35 MIX screed after 24 hours regardless of thickness.

NOTE: Should the moisture need to be determined the specific properties and composition of an ARDEX A 35 MIX screed mean that the moisture content cannot be determined with electric conductivity or hygrometer methods. The speedy moisture tester (Carbide method) must be used. Please consult ARDEX Technical Services for further advice.

British Standard Codes of Practice.

The following British Standard Codes of Practice can be referred to for advice on screeding:-
BS 8204: Part 1. In-situ Floorings – Bases and Screeds
BS 5385: Part 3. Appendix C. Ceramic Floor Tiling and Mosaics
BS 8000: Part 9. Code of Practice for cement/sand floor screeds and concrete floor toppings (Workmanship on building sites).



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.