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FEBRUARY 2025
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PRODUCT DATA SHEET

ARDEX SD-T BASE MIX

Rapid Drying Industrial Topping Base Mix

Features

COST EFFECTIVE - base mix used prior to ARDEX K 80 topping layer

USER FRIENDLY - The ARDEX K 80/SD-T Base Mix System can be installed from 6mm - 50mm over existing concrete surfaces

VERSATILE - can receive tiles and natural stone, can be hand mixed or pump applied

Rapidry Formula, ensuring drying time of 24 hours regardless of thickness

RAPIDRY FORMULA

What is the Rapidry Formula?

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

bsi ISO 9001 Quality Management Systems CERTIFIED — ISO 14001 Environmental Management CERTIFIED — ISO 45001 Occupational Health and Safety Management CERTIFIED

Reg No. FM 01207 EMS 565427 OHS 628374

ARDEX UK LIMITED
Homefield Road, Haverhill, Suffolk CB9 8QP UK.
Telephone: +44 (0)1440 714939
Fax: +44 (0)1440 716640
Email: info@ardex.co.uk
ARDEX online: www.ardex.co.uk

ARDEX SD-T BASE MIX

Rapid Drying Industrial Topping Base Mix

DESCRIPTION

ARDEX SD-T Base Mix is designed to pre-level concrete surfaces prior to applying ARDEX K 80.

ARDEX K 80 Industrial Floor System provides the ideal combination of toughness, low maintenance, ease of application and high durability coupled with the incorporation of the unique ARDEX 'Rapidry Formula'. Due to the 'Rapidry Formula' chemically binding the mixed water, the ARDEX K 80 literally dries within itself at the same time as it rapidly develops strength, see separate ARDEX K 80 datasheet.

Where thick applications are required the cost effective ARDEX SD-T Base Mix can be initially applied from 6mm -50mm depth to level the concrete base. The 'Rapidry Formula' technology of the ARDEX SD-T Base Mix means that within only 24 hours of its application a minimum 5mm thickness of ARDEX K 80 can be applied. If ceramic or natural stone tiles are to be fixed to ARDEX SD-T Base Mix, the minimum depth of ARDEX SD-T Base Mix should be 10mm.

SUBSTRATE PREPARATION

The concrete surface must be hard, sound and free of dust and other barrier materials such as paint, lime coatings, plaster, curing agents, laitance, adhesive residues, etc., that will inhibit adhesion to the substrate. The surface strength of the concrete must be sufficient to support the ARDEX SD-T Base Mix. BS8204-3 recommends a minimum surface tensile strength of 0.8N/mm^2 for concrete bases to receive wearing or levelling screeds.

NOTE: For heavy duty locations the minimum surface tensile strength should be 1.5N/mm^2.

Use a suitable degreaser to remove polish, wax, grease, oil and similar contaminating substances prior to mechanical preparation. Contact our Technical Support Team for further information. Concrete surfaces must be mechanically prepared, either by scabbling, grinding or contained shot blasting equipment or similar, and be vacuumed clean prior to priming. All surfaces need priming. It is recommended to prime with a sand blinded application of ARDEX R 3 E Solvent Free Epoxy Primer or ARDEX R 5 E Rapid Curing Solvent Free Epoxy Primer in accordance with the technical datasheet.

The sand used to create a blinded/aggregate keyed surface should be ARDEX Fine Aggregate, approximately 1 to 1.5mm in size. Overwatered, or otherwise weak concrete surfaces must be suitably prepared down to sound, solid concrete by mechanical methods. Direct to earth concrete subfloors must be dry and have an effective damp proof membrane such as ARDEX DPM 1 C or ARDEX DPM 1 C R.

NOTE: Any joints or cracks in the concrete base where differential movement is anticipated e.g. movement joints, should be brought through to the finished surface of the subsequent ARDEX K 80 and ARDEX SD-T Base Mix should not be used in external or areas subject to wetting.

MIXING ARDEX SD-T Base Mix

As above except $3^1/_2$ to $3^3/_4$ litres of mixing water is used. Do not exceed $3^3/_4$ litres of water per 25kg bag of ARDEX SD-T Base Mix.

APPLICATION OF ARDEX SD-T Base Mix

Pour the mixed ARDEX SD-T Base Mix compound onto the prepared subfloor. The mixed mortar will flow out and self-level during the first 10 minutes of its 30 minutes working time at 20°C. Use an ARDEX pin leveller with height adjustment for thicker applications. A spiked roller can be used for finishing off depending on the finish required. Minimum recommended application temperature 10°C. Where large subfloors require levelling and/or thick applications are required it is recommended to pump ARDEX SD-T Base Mix Industrial Floor System.

NOTE: ARDEX K 80/SD-T Base Mix may be pumped using suitable floor screed mixer pump units. For advice on pumping, including suitable equipment and techniques, please contact our Technical Support Team.

THICKNESS

ARDEX SD-T Base Mix can be applied at thicknesses from 6mm to 50mm. When applying ARDEX SD-T Base Mix at thicknesses of over 20mm, larger aggregate may be incorporated. Contact our Technical Support Team for further information. The subsequent layer of ARDEX K 80 should be applied at thicknesses between 5 and 10mm.

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Where good drying conditions prevail (i.e. 20°C and a relative humidity not exceeding 50%) the subsequent layer of ARDEX K 80 can be applied after 24 hours, see ARDEX K 80 datasheet. Lower temperatures and/or higher humidity conditions or thicker layers will extend this time, higher temperatures and lower.

COVERAGE

Approximately 1.87kg ARDEX SD-T Base Mix powder/m^2/mm, e.g. one bag will cover approximately 1.3m^2 at 10mm thickness. NOTE: The coverage figure is based on a flat level surface, additional material should be allowed for where the surface is rough or uneven.

PACKAGING

ARDEX SD-T base is packed in paper sacks incorporating a polyethylene liner - net weight 25kg.

STORAGE AND SHELF LIFE

ARDEX SD-T Base Mix 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 is 12 months from the date shown on the packaging.

PRECAUTIONS

ARDEX SD-T Base Mix 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.

NOTE: For the latest technical or health and safety data on this product, consult the current technical or health and safety datasheet online at www.ardex.co.uk.

TECHNICAL DATA

Working time at 20°C	approximately 15 minutes
Weight of fresh mortar	approximately 2.21kg/litre
Flow life at 20°C Initial	approximately 10 minutes
Set (Vicat) Final Set	approximately $1^1/_2$ hours
(Vicat)	approximately 2 hours
Compressive Strength	
(EN 196) 28 days	approximately 30 N/mm^2

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. Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may affect specific installation recommendations.