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PRODUCT DATA SHEET

ARDEX R3E

Solvent Free Epoxy Primer

Features

- Two Component Epoxy Resin Primer and Bonding Agent
- Low odour
- Suitable for use on damp cementitious floors
- Can be used on dry Calcium Sulphate Screeds
- Use with a sand keyed finish on to ARDEX DPM's where an application greater than 6mm of ARDEX Smoothing Compound is required, or a bonded ARDEX Screed greater than 50mm
- Can be used as a primer or bonding agent when installing an ARDEX Screed
- Use with the ARDEX K 71,K 80/ARDEX SDT-B Industrial Flooring System
- Use on subfloors containing lignite

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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

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ARDEX R 3 E

Solvent Free Epoxy Primer

DESCRIPTION

ARDEX R 3 E Solvent Free Epoxy Primer and Bonding Agent is a two component, solvent free, epoxy resin for use on sound concrete, cementitious surfaces, calcium sulphate based screeds and smoothing compounds.

USE

ARDEX R 3 E forms a primer/bonding layer on most surfaces, especially smooth or dense surfaces in internal and external situations.

ARDEX R 3 E can be used as a primer and bonding bridge, prior to the application of the ARDEX range of Cement-Based Tiling and Flooring products, and on cementitious and Calcium Sulphate based screeds. ARDEX R 3 E must be sand blinded to refusal, with ARDEX FINE AGGREGATE to give a mechanical key for use as a primer prior to application of the ARDEX K 80/K 71 ARDEX SD-T B Industrial Floor System, or other appropriate ARDEX Cement Based products and Smoothing Compounds.

ARDEX R3E blinded with ARDEX Fine Aggregate, is the recommended primer to use onto concrete, cement and sand screeds and gypsum based screeds containing lignite, all of which must be above an effective DPM with a relative humidity not more than 75%RH.

Where substrates are very porous, more than one coat of ARDEX R 3 E may be required to saturate the surface and achieve the desired bonding efficiency. For applications where the relative humidity (RH) of the substrate is in excess of 75%, or where a structural Damp Proof Membrane is not installed but is required due to the type of floor finishes to be applied, ARDEX DPM 1 C should be used prior to applying ARDEX R 3 E.

SURFACE PREPARATION

The concrete or screed substrate 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.

Use a suitable degreaser to remove polish, wax, grease, oil and similar contaminating substances prior to mechanical preparation. All substrates must be prepared using appropriate, mechanised surface preparation equipment, prior to applying the recommended ARDEX products. Then completely remove any dust and fines by the use of brushing combined with effective industrial vacuum extraction equipment.

The mechanical preparation is required to a suitable depth that exposes aggregate and a sound hard surface ready to receive treatment.

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 and suitably sealed.

MIXING

The individual components of the ARDEX R 3 E Solvent Free Epoxy Primer should be thoroughly stirred before being mixed together. The entire contents of the hardener container (Component B) should be poured into the resin container (Component A) and the two materials mixed thoroughly for at least 3 minutes, using a heavy duty slow speed drill and spiral paddle. Some of the mixed components should be reintroduced back into the hardener container in order to activate any residue, and then poured back into the larger mixing vessel and re-mixed for 30 seconds (back mixing).
Mixing in this way will ensure product consistency, and any resin that remains in the containers, after application, will cure to allow for easier waste disposal. The mixed primer has a working time not more than 20 minutes at 20°C after which, all remaining material must not be used but be discarded safely.

NOTE: Once mixed, ARDEX R 3 E will generate heat and lose working time if it is left in the mixing container or otherwise kept in bulk.

NOTE: Always wear suitable eye/face protection and gloves.

APPLICATION

Once mixed, the material should be spread over the floor as the self-heating in the container will reduce working time. Apply using a brush or short/medium pile roller. One or more coats may be required to ensure that a uniform coating is achieved and to compensate for differences in surface porosity.

All movement joints in the subfloor must be carried through the topping/floor finish and properly sealed. Construction joints and cracks, not subject to movement, may be overlaid but should the floor move in any way, these defects will reflect through the system. Isolation joints will need to be allowed for in areas where high thermal movement is anticipated, e.g. around ovens and freezers.

When applying ARDEX FINE AGGREGATE as a sand blind, ensure this is carried out whilst the ARDEX R 3 E is still fresh and as the application progresses.

Blinding is a full covering of dry ARDEX FINE AGGREGATE onto the wet ARDEX R 3 E surface.

Excess fine aggregate must be removed by brushing or vacuum after the ARDEX R 3 E has set, leaving a sand paper like finish.

PACKAGING

6kg units of ARDEX R 3 E Solvent Free Epoxy Primer are supplied in pre-gauged metal duo containers. The hardener (Component B) is in the small container and the resin (Component A) is in the large container with sufficient space to add the hardener (Component B).

COVERAGE

Approximately 24m^2 per 6kg unit.

PHYSICAL PROPERTIES

Working time	20 minutes at 20°C 6-8
Walkability	hours at 20°C 8 hours at
Overcoat time	20°C

ARDEX R 3 E Solvent Free Epoxy Primer should be allowed to cure prior to the installation of the cement and sand screed or smoothing compound, typically 8 hours at 20°C.

STORAGE AND SHELF LIFE

Store in dry conditions. ARDEX R 3 E Solvent Free Epoxy Primer has a storage life of not less than 12 months in the original unopened containers.

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

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.

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