ARDEX R 77 E

Self-Levelling Epoxy with Antistatic Properties

Topcoat in dissipative & conductive systems

Solvent free (100% solids)

Smooth, coloured finish

Easy application

Easy to clean, low maintenance

Available in a range of standard RAL colours

High chemical and mechanical resistance

Meets EN 13813-2002

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ARDEX R 77 E

Self-Levelling Epoxy with Antistatic Properties

DESCRIPTION

ARDEX R 77 E is a topcoat for conductive flooring systems. It is a fluid, solvent- free, two component epoxy mortar applied as a self leveller. ARDEX R 77 E is ideal in flooring systems which conducts/dissipates static electricity. Produces a smooth, waterproof, coloured finish with high mechanical and chemical performance, and is easy to clean and maintain.

This conductive/dissipative system requires priming with ARDEX R 4 E or ARDEX R 5 E, affixed to an earthed copper wire, and followed by a coat of ARDEX R 7 E. The system is finished with a layer of ARDEX R 77 E.

USES

- Internal or external applications
- Floors requiring anti-static properties, e.g. operating theatres, warehouses storing explosive or flammable products, robotic areas, rooms with highly sensitive electronic and IT equipment

SURFACE PREPARATION

Ensure the substrate is level and primed, the film must be dry and completely free of grease, dust, and other loose particles that may impair adhesion. Substrate tensile strength must be greater than 15MPa. Properly treat and seal all joints or gaps in the concrete substrate where differential movement is expected (e.g. expansion joints).

PRIMING

Prior to applying ARDEX R 77 E, prime the substrates with ARDEX R 7 E (see corresponding datasheet for correct procedure).

MIXING

Stir the individual components of ARDEX R 77 E before mixing. Thoroughly mix the two components with a mixer at low speed for a minimum of 3 minutes.

Part of the mixture can be reintroduced into the hardener container to gather remaining residues in the container. The mixture which has been reintroduced into the hardener container can be returned to the mixing container and stirred for a further 30 seconds. This mixing process ensures the product's consistency and that any residual resin remaining in the containers reacts.

After the two components have been mixed, use immediately. 1kg of ARDEX R 77 E remains workable for 35 minutes at a temperature between 18°C and 20°C.

IMPORTANT

Towards the end of the mixture's useful life and due to its high level of reactivity, the mixture will heat up, resulting in a sharp decline in its pot life. The heat will increase in proportion to the amount of resin remaining in the container. In these cases of high temperature, do not touch the drum. In case of fumes, cover the lid, but do not close, and using the handle, place somewhere cool or outdoors.

APPLICATION

Once components A and B are mixed, add 300g of 0.4mm quartz sand per kg of mixture. Pour the material over the primed substrate and distribute with a 5x5mm notched trowel, to ensure a maximum thickness of 1.5mm.

Treat immediately with a spiked roller to allow entrapped air to escape, until all bubbles have been removed and results in an even, level surface with uniform colour. Do not add solvent or thinners at any stage.

LIMITATIONS

Do not use ARDEX R 77 E where ambient and/or substrate temperatures are less than 10°C or less than 3°C above dew point. Do not use where ambient or substrate temperatures exceed 30ºC or where ambient humidity exceeds 85%. If pot life is exceeded the mixed product loses characteristics and should be disposed of. All ARDEX products are manufactured subject to rigorous quality controls and procedures; however, if strict colour consistency is required, it is recommended to use products from the same batch.

CLEAN UP

Clean tools and equipment immediately after use with an applicable solvent. Hardened product will need to be removed mechanically.

Any spillage from any of the products must be removed immediately with sand, vermiculite or other inert material and collected in a suitable container for proper handling and treatment. Residues from spillage and empty containers must be dealt with in accordance with local regulations. See product safety sheet for further information.

STORAGE

ARDEX R 77 E can be stored for up to 12 months in its original unopened packaging. The product should be stored in a dry place between 5°C and 30°C. Keep away from frost, direct sunlight and sources of heat.

COVERAGE

Approx. 2.5kg/m² per 1.5mm layer (with 0.4mm aggregate in 1:0.3 ratio).

COLOUR

ARDEX R 77 E can be tinted to a range of RAL colours.

PACKAGING

ARDEX R 77 E is available in kits of 20kg.

PRECAUTIONS

Causes skin irritation. May cause an allergic skin reaction. Harmful if swallowed or inhaled. Causes severe burn and eye damage. Toxic to aquatic life with long lasting effects.

Do not breathe dust, fumes, gas, mist, spray, vapours. Wear protective gloves, protective clothing, eye and face protection. IF ON SKIN: Immediately remove all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a POISON CENTRE or a doctor. Dispose of contents/container to hazardous or special waste collection point, in accordance with local regulation. Corrosive to the respiratory tract. Contains epoxy constituents. May produce an allergic reaction.

Additional information is in the Safety Data Sheet at www.ardex.co.nz

TECHNICAL DATA

Characteristics	Result
Density	Approx. 1.35kg/L
Working time @ 20°C	35 minutes
Touch dry @ 20°C	24 hours
Full cure @ 20°C	7 days
Flexural strength (UNE EN 196-1)	>33MPa (mortar 1:1 with 0.4mm sand)
Compressive strength (UNE EN 196-1)	90MPa (mortar 1:1 with 0.4mm sand)

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COLOUR CHART

*Indication of colour only.