ARDEX R 74 PU

Self-Levelling Polyurethane Elastic Resin

Solvent free

100% solids

Elastic, comfortable flooring

Can be mixed with sand

Excellent adhesion

Good chemical resistance

Easy to clean

Available in a range of RAL colours

Internal or external use

Meets EN 13813-2002

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ARDEX R 74 PU

Self-Levelling Polyurethane Elastic Resin

DESCRIPTION

ARDEX R 74 PU is a solvent free, two-component polyurethane resin for creating coloured, elastic flooring with good chemical and abrasion resistance. In combination with quartz sand, ARDEX R 74 PU can be applied as a highly even, self-levelling coating. After curing, ARDEX R 74 PU is resistant to the passage of water, chemicals, frost, and weathering.

USES

- Comfortable flooring
- Hospitals, aged care facilities
- Pavilions and sports courts

SURFACE PREPARATION

Ensure that the substrate is hard, dry, solid and free of laitance, grease, dust or other loose particles such as paint, release agents, limescale, mortar, plaster, adhesive residues, etc., which may impair adhesion. Remove all traces of varnish, waxes, fats, oils and similar contaminants prior to mechanical preparation. Prepare substrate with specialist machinery; grinding, milling or blasting machine depending on the state of the substrate. Vacuum the substrate.

Properly treat and seal all joints or gaps in the concrete substrate where differential movement is expected (for example expansion joints). Substrate tensile strength must be greater than 15MPa.

PRIMING

Prime the substrate with ARDEX R 4 E or ARDEX R 5 E. More than one priming layer is recommended on highly porous substrates. The second layer should be applied as soon as the first is sufficiently cured.

Do not allow the primer to dry for any longer than indicated in its technical sheet, otherwise it will need to be sanded and reprimed.

MIXING

Stir the individual components of ARDEX R 74 PU 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 74 PU remains workable for 25 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 pot life. The heat increases in proportion to the amount of resin remaining in the container.

In these cases (high temperature) do not touch the drum. In case of fumes, place the lid without closing it and using the handle, place somewhere cool or outdoors.

APPLICATION

Once components A and B are mixed, add 300-500g of 0.3-0.4mm quartz sand per kg of product. Higher proportions of aggregate will compromise elasticity.

Pour the material over the primed substrate and distribute with a notched trowel to control thickness. Treat immediately with a spiked roller to allow entrapped air to escape, until all bubbles have been removed.

For proper levelling, a minimum thickness of 2mm is required. Do not add solvent or thinner at any stage.

LIMITATIONS

Do not use ARDEX R 74 PU 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, dispose of the product.

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 74 PU 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

When mixed in 1:0.5 ratio with aggregate: 1.7kg/mm/m^2

PACKAGING

ARDEX R 74 PU is available in kits of 20kg, containing two parts (Part A - 15.8kg & Part B - 4.2kg).

PRECAUTIONS

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

Wear protective gloves, protective clothing, eye and face protection. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Store in a well ventilated place. Keep container tightly closed. Dispose of contents/ container to hazardous or special waste collection point, in accordance with local regulation. Contains isocyanates. May produce an allergic reaction.

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

TECHNICAL DATA

Characteristics	Result
Density	Approx. 1.21kg/L
Working time @ 20°C	25 minutes
Initial cure @ 20°C	7 hours
Light traffic after @ 20°C	24 hours
Full cure @ 20°C	7 days
Compressive strength (UNE EN 196-1)	10MPa

Toll Free Technical Services:
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COLOUR CHART

*Indication of colour only.