



ARDEX R 74 P

Self-smoothing Polyurethane Screed

Hard wearing, good abrasion resistance

High mechanical and impact resistance

Resists fungi, mildew and bacteria growth

Non-toxic after cure

Wide service temperature: from -5°C to 100°C

HACCP Approved

Available in a range of colours



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Self-smoothing Polyurethane Screed

DESCRIPTION

ARDEX R 74 P is a self-smoothing 4 component polyurethane floor system. Seamless, chemical resistance, high mechanical properties, heat and slip resistance with matt decorative colour finish.

APPLICATIONS

Typical application areas:

- Food and beverage processing area
- Pharmaceutical plant
- Warehouse and packaging plants
- Battery room
- Electronic component manufacture and assembly

SUBSTRATE PREPARATION

Concrete or screed substrate should have a minimum compressive strength of 25N/mm² and adhesion minimum pull-off strength of 1.5N/mm².

The substrate should be clean and free from laitance, oil, dust, loose constituents, paint residues, chemicals, algae and other contamination should be removed.

The substrates should be dry and free from ground water pressure. If substrate moisture exceeded more than 70%, ARDEX DPM is recommended beneath the R 74 P system.

The substrate must be prepared by vacuum shot blasting, rough contaminations to remove by grinding. Cracks and hollows should be properly repair. New concrete must be allowed to cure for at least 28 days.

To ensure maximum bond, grooves must be cut into the perimeter of the subfloor and criss-cross into the areas to be coated, typically 8mm deep by 8mm wide. These should be inset approximately 100mm from and running parallel with, the walls and adjacent to doorways and plinths, etc., including any finishing edges and day joints. The grooves must have clean, square edges and the product laid into the full depth of the groove forming a perimeter anchorage. Grooves should surround areas not exceeding 20m².

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.

PRIMING

All appropriate substrates to receive ARDEX R 74 P screed must first be primed with ARDEX R 74 P scratch

coat (+/- 1mm thick) or ARDEX R 2 E primer for sealing the porosity of the concrete substrate. Usually within 8 to 24 hours; after scratch coat cured. Then only allow to apply ARDEX R 74 P topping onto the scratch coat.

MIXING

Firstly, pour the Part A into a clean mixing container and stir it using a helical mixer. Then, add the ARDEX R 74 P colour paste into Part A and mix for min. 1 minute until homogenous. Pour Part B Resin Components of ARDEX R 74 P into the mix of Part A and colour paste for another few more second until uniform. Add Part C for further mix for 1 minute to achieve a fully homogeneous mortar, using forced action with mixing speed of 750 rpm in a suitably sized mixing pail.

APPLICATION

Apply ARDEX R 74 P using the trowel, notched squeegee or pin rake and set it to the correct depth or requirement thickness.

As soon as the product has been laid and as work progresses, the surface should be gently rolled with a spike roller in order to release the air bubble and to provide an even surface appearance.

The work area should be protected during the installation process and during the initial curing time to ensure that no airborne debris can contaminate the surface of the wet resin as this will lead to unwanted blemishes in the hardened cured surface of minimum thickness of 3mm.

DRYING TIMES

At 30°C foot traffic access in 8 hours, vehicular traffic after 24 hours. At 20°C foot traffic access in 12 hours, vehicular traffic in 48 hours. Full cure at 7 days.

LIMITATIONS

ARDEX R 74 P only be applied at temperatures above 5°C and where the atmospheric relative humidity (RH) is 90% or below. Substrate moisture should have a RH of 75% or less. ARDEX R 74 P should not be applied when temperatures are below 5°C and temperatures are above 35°C.

TECHNICAL DATA

Working Life @25°C:	15 minutes
Full chemical cure:	7 days
Adhesion Strength:	> 1.5 N/mm ²

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Tensile Strength:	7 N/mm ²
Compressive Strength	50 N/mm ²
Flexural Strength	20 N/mm ²
Abrasion resistance	weight loss 5mg (Taber, 1000 cycle)
Shore D hardness	79 - 84

CHEMICAL RESISTANCE

ARDEX R 74 P is resistant to a wide range of liquids and chemicals, please consult our technical sales representatives for full details.

COLOURS

Please consult our technical sales representatives for customized colour requests.

MAINTENANCE

Basic cleaning and maintenance will prolong the life of polyurethane floors, clean regularly using a single or double headed rotary scrubber machine in conjunction with alkaline detergent.

PACKAGING

ARDEX R 74 P is packed in a four component pack of 20kg consisting of parts A (resin) and B (hardener) packed in plastic bottles, parts C (filler) and D (colour paste) packed in a bag.

COVERAGE

A 20kg pack of ARDEX R 74 P Polyurethane Screed will cover approx. 5m² when applied at a thickness of 2mm.

CLEANING

Clean the tools and equipment immediately after use with thinner. Hardened material can be removed mechanically.

STORAGE AND SHELF LIFE

ARDEX R 74 P has a shelf life of not less than 6 months if kept in a dry, cool place between 5°C and 30°C in the original unopened containers.

SAFETY PRECAUTIONS

ARDEX R 74 P contains certain chemicals which can cause skin irritation if exposed and respiratory reaction if inhaled. The product should not come into contact with the skin and eyes or to be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Wear suitable

gloves, goggles and other protective clothing. In case of contact with skin, rinse with plenty of clean water then wash with soap and water. In case of contact with eyes, rinse immediately with plenty of clean water, and then seek medical attention without delay. If swallowed, seek medical attention straight away, do not induce vomiting. The Safety Datasheet (SDS) is available upon request and online at www.ardex-quickseal.com.

DISCLAIMER

The technical datasheets are based on the latest information and given in good faith and represent the best of our knowledge and experience at the time of printing. They are primarily offered for user's consideration and evaluation. It is the responsibility of the user to conduct their own tests to validate the suitability of the products. It is also the responsibility of the user to ensure that the products are used and handled correctly and in accordance with any applicable standards, the product instructions and recommendations and only for the uses they are intended. As we have no control over site conditions and the execution of the work, we accept no liability for any loss or damage which may rise as a result thereof. We also reserve the right to update the information at any time without prior notice to you to reflect our ongoing research and development program.

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