



ARDEX R 21 PU

Clear Polyurethane Anti-Scratch Varnish

Easy application

Excellent substrate adhesion

Impermeable to water vapour and liquid

Matt finish

Good chemical resistance

Resistant to scratching and abrasion

Good resistance to UV radiation

Internal or external use

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ARDEX R 21 PU

Clear Polyurethane Anti-Scratch Varnish

DESCRIPTION

ARDEX R 21 PU is a transparent, anti-scratch two-component aliphatic polyurethane coating suitable for finishing and protecting polymeric and concrete flooring, increasing resistance to scratching and abrasion, and providing outdoor stability and chemical resistance.

After setting, ARDEX R 21 PU is waterproof, resistant to chemical agents and weathering, frost and weathering.

USES

- Internal or external applications
- Protection of polymeric flooring exposed to light vehicle and pedestrian traffic, such as garages, warehouses, showrooms, light industrial buildings
- Protective layer on flooring with coloured aggregates or chips
- Matt finish for floor self-levelling

SUBSTRATES

ARDEX R 21 PU can be used as a protective coating over cured ARDEX R 76 PU or ARDEX R 50 ES.

ARDEX R 21 PU may be applied directly to concrete. It is important you are familiar with application techniques and maintaining a wet edge to ensure lap marks do not show through.

MIXING

Stir both Part A and Part B of ARDEX R 21 PU individually before mixing. Thoroughly mix the two components together 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 mixing both components, use immediately. 1kg of ARDEX R 21 PU remains workable for 50 minutes at a temperature between 18°C and 20°C. Higher temperatures shorten the pot life. Near the end of the product's pot life, the product's viscosity will increase.

APPLICATION

After mixing components A and B, apply directly to the substrate using a short nap roller, brush or air-less. Ensure the entire surface is completely painted and that

the product has not formed pools. After applying the first coat, wait at least 24 hours and no more than 48 hours before applying a second coat. Apply the second coat crossways to the first.

The recommended dosage is 80 g/m² per coat. Do not apply using a higher dosage, as this will excessively lengthen curing time. Ensure proper ventilation during application and curing, especially in confined spaces. Do not add solvent or thinner at any stage.

LIMITATIONS

Do not use ARDEX R 21 PU where ambient and/or substrate temperatures are less than 10°C or less than 3°C above the dew point. Do not use where ambient and/or substrate temperatures exceed 30°C or where ambient humidity exceeds 85%. If pot life is exceeded the mixed product loses its characteristics and should be disposed of.

CLEAN UP

ARDEX R 21 PU can be cleaned from tools and equipment immediately after use using a suitable solvent. If the product is allowed to harden, it will have 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 21 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

Recommended 80g/m² per coat.

PACKAGING

ARDEX R 21 PU is available in kits of 10kg, containing two parts (7.5kg & 2.5kg).

TECHNICAL DATA

Characteristics	Result
Density	Approx. 1.1kg/L
Working time @ 20°C	Approx. 50 minutes
Touch dry @ 20°C	5 hours
Trafficable after	48 hours
Full cure @ 20°C	7 days

PRECAUTIONS

Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.

Keep away from heat, hot surfaces, open flames, sparks. No smoking. Do not breathe dust, fume, gas, mist, spray, vapours. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, eye and face protection. IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IN CASE OF FIRE: Use foam, carbon dioxide, extinguishing powder to extinguish. Store in a well-ventilated place. Keep cool. 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 ardex.co.nz

Toll Free Technical Services:

0800 227 339 (New Zealand)

The technical details, recommendations and other information contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance with any applicable New Zealand & Australian Standards, our instructions and recommendations and only for the uses they are intended. We also reserve the right to update information without prior notice to you to reflect our ongoing research and development program. Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may effect specific installation recommendations. The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have already been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with them.

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