



ARDEX R 20 PU

Polyurethane Coating for Internal/External Use

- Excellent adhesion to concrete and metal
- Easy application
- Available in a range of standard RAL colours
- Impermeable to water vapour and liquid
- Hygienic and easy to clean
- Satin finish
- High chemical and mechanical resistance
- Resistant to UV radiation
- Internal or external use
- Suitable for horizontal or vertical surfaces

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ARDEX R 20 PU

Polyurethane Coating for Internal/External Use

DESCRIPTION

ARDEX R 20 PU is a two-part, coloured polyurethane coating which provides a waterproof surface with high mechanical & chemical properties and is easy to clean. The coating's high UV resistance makes it ideal for outdoor applications. ARDEX R 20 PU penetrates well into the substrate, providing excellent adhesion and anti-dust properties.

USES

- Protective & decorative finish of flooring in garages, warehouses, and other surfaces exposed to light vehicle and pedestrian traffic
- Finishing coat for industrial flooring
- Internal or external applications
- Suitable on mineral and metallic substrates
- General public works renovation

SURFACE PREPARATION

Ensure that the substrate is slightly rough, 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 15 MPa. If being applied to metal substrates, sandblast the substrate.

MIXING

Stir the individual components of ARDEX R 20 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 20 PU remains workable for 30 minutes at temperatures between 18°C and 20°C.

APPLICATION

Once components A and B are mixed, apply directly to the substrate using a short nap roller, brush, or airless. Ensure the entire surface is painted completely and does not pool.

The second layer should be applied as soon as the first is sufficiently cured. Do not allow more than 8 hours at 20°C to elapse between coats. If 48 hours elapse, sanding will be required.

Ensure proper ventilation during application and curing, especially in confined places. Do not add solvents or thinners at any stage.

LIMITATIONS

Do not use ARDEX R 20 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 30°C 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 20 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

Approximately 200-350g/m² per coat, depending on substrate roughness and porosity.

COLOUR

ARDEX R 20 PU can be tinted to a range of standard RAL colours.

PACKAGING

ARDEX R 20 PU is available in kits of 10kg containing two parts (8.1kg & 1.9kg).

TECHNICAL DATA

Characteristics	Result
Density	Approx. 1.5kg/L
Working time @ 20°C	30 minutes
Touch dry	
Dry substrates @ 25°C	5 hours
Wet substrates @ 20°C	24 hours
Full cure @ 20°C	7 days

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.

Avoid breathing dust, fumes, gas, mist, spray, vapours. Wear protective gloves, protective clothing, eye and face protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, call a POISONS CENTRE. IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water. If irritation or rash persists get medical advice. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists get medical advice. Dispose of contents/container to hazardous or special waste collection point, in accordance with local regulation.

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

Toll Free Technical Services:
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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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COLOUR CHART

						
RAL 1001	RAL 1011	RAL 1013	RAL 1014	RAL 1019	RAL 3009	RAL 5012
						
RAL 5015	RAL 5018	RAL 6011	RAL 6019	RAL 6021	RAL 7001	RAL 7004
						
RAL 7012	RAL 7016	RAL 7023	RAL 7030	RAL 7032	RAL 7035	RAL 7037
						
RAL 7038	RAL 7040	RAL 7042	RAL 7044	RAL 8004	RAL 8017	RAL 8024
						
RAL 9002	RAL 9005	RAL 9010	RAL 9016			
						
RAL 3005	RAL 3011	RAL 3013	RAL 4001	RAL 4005	RAL 5002	RAL 5003
						
RAL 5005	RAL 5007	RAL 5010	RAL 6001	RAL 6010	RAL 6016	RAL 6017
						
RAL 6026	RAL 7009	RAL 7031	RAL 8001			

*Indication of colour only.