



ARDEX R 76 PU

Self-Levelling Polyurethane Resin

Solvent free

High mechanical and chemical resistance

Can be mixed with sand

Excellent adhesion

Easy to clean

Available in a range of RAL colours

Internal or external use

Meets EN 13813-2002

ARDEX Australia Pty Ltd
20 Powers Road
Seven Hills NSW 2147
1300 788 780
technicalservices@ardexaustralia.com
ardexaustralia.com

ARDEX New Zealand Ltd
15 Alfred Street
Onehunga, Auckland 1061
0800 227 339
info@ardexnz.com
ardex.co.nz

ARDEX R 76 PU

Self-Levelling Polyurethane Resin

DESCRIPTION

ARDEX R 76 PU is a solvent free, two-component polyurethane resin for creating flooring with high chemical and abrasion resistance. When mixed with 0.3-0.4mm quartz sand, ARDEX R 76 PU can be applied as a highly even, self-levelling coating.

After curing, ARDEX R 76 PU is resistant to the passage of water, chemicals, frost, and weathering.

USES

- Floors requiring high abrasive resistance
- Industrial flooring e.g. laboratories, garages, food preparation areas, pharmaceutical and chemical sectors
- Storage areas and motorised goods tanks
- Highly trafficable areas e.g. garages

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 15 MPa.

PRIMING

Prime the substrate with ARDEX R 4 E or ARDEX R 5 E. To ensure binding efficiency and absence of bubbles, more than one priming layer may be required especially on highly porous substrates, and on substrates with areas of different absorption.

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 76 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 76 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 300-400g 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 76 PU where ambient 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 product 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.

COVERAGE

When mixed in 1:0.4 ratio with aggregate: 1.7kg/mm/m²

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 76 PU can be stored for up to 12 months in its original unopened packaging. Store in a dry place between 5°C and 30°C. Keep away from frost, direct sunlight and sources of heat.

COLOUR

ARDEX R 76 PU can be tinted to a range of standard RAL colours.

PACKAGING

ARDEX R 76 PU is available in kits of 25kg, containing two parts (Part A - 19.2kg & 5.78kg).

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.

Obtain special instructions before use. Wear protective gloves, protective clothing, eye and face protection. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms, call a POISON CENTRE. IF exposed or concerned, get medical attention. Call a POISON CENTRE or doctor if you feel unwell. 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

TECHNICAL DATA

Characteristics	Result
Density	Approx. 1.4kg/L
Working time @ 20°C	25 minutes
Initial cure @ 20°C	7 hours
Full cure @ 20°C	7 days
Compressive strength (UNE EN 196-1)	45MPa (mortar 1:0.3 with 0.4mm sand)
Mechanical strength achieved	24 hours
Chemical strength achieved	7 days

Toll Free Technical Services:
1800 224 070 (Australia)
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.

© ARDEX New Zealand Ltd 2019.

All aforementioned products are the trademarks of ARDEX New Zealand Ltd, its licensors and affiliates. Always refer to ardex.co.nz for the latest technical data from ARDEX New Zealand Ltd

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.