



ARDEX RA 050

Hybrid Polymer Sealant

Excellent weather and UV resistance

Can be applied to both damp and green substrates

Excellent primerless adhesion to most common substrates

Fully compatible with approved ARDEX Waterproofing Membranes and ARDEX Protective Coatings

No odour and completely neutral - does not contain solvents, halogens, isocyanates, acids, or toxic components

ARDEX Australia Pty Ltd
2 Buda Way,
Kemps Creek, NSW 2178
Phone: 1300 788 780
Email: technicalservices@ardexaustralia.com
www.ardexaustralia.com

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

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Hybrid Polymer Sealant

PRODUCT DESCRIPTION

ARDEX RA 050 is a one-component, hybrid polymer sealant. The ARDEX RA 050 is suitable for both internal and external applications with excellent UV resistance, elasticity, and paintability performance.

FEATURES

- Excellent weather and UV resistance
- Can be applied to both damp and green surfaces
- Primerless adhesion to most common substrates
- Fully compatible with approved ARDEX Membranes and ARDEX Protective Coatings
- No odour and completely neutral - does not contain solvents, halogens, isocyanates, acids, or toxic components

COMMON SUBSTRATES

- Brick
- Stone
- Screed
- Masonry
- Concrete
- Concrete Block
- Treated Timber

For further substrate types please contact ARDEX Technical Services (technicalservices@ardexaustralia.com).

COMPATIBILITY

ARDEX RA 050 may be overcoated immediately after application, and is compatible with ARDEX Liquid Applied Membranes and ARDEX Protective Coatings:

- ARDEX WPM 310
- ARDEX WPM 330
- ARDEX WPM 002
- ARDEX WPM 909
- ARDEX WPM 155 Rapid Plus
- ARDEX WPM 130 Builders Express

Note: Do not apply primer ARDEX WPM 270 directly onto ARDEX RA 050 as this may affect the sealants performance.

SUBSTRATE PREPARATION

By way of mechanical methods and vacuum cleaning as necessary, all surfaces must be clean, free of dust, grease, release agents, existing sealant, loose debris or any other contaminants which may affect product adhesion.

JOINT APPLICATION

Do not bond sealant directly to the bottom of the prepared joint. Use appropriate backer rod or self-adhesive bond breaker tape prior to application to avoid three sided adhesion and to control joint depth. Extrude the sealant into the prepared joint, ensuring complete adhesion to the joint sides and avoiding air entrapment.

A width to depth ratio of 2:1 must be maintained for joint widths >10mm to maximise product performance.

Minimum joint width: 5mm

Maximum joint width: 30mm

Minimum joint depth: 5mm

Tool the sealant immediately after application. The use of tape along joint edges is suggested to create a clean finish, with the removal of tape within the sealants skinning timeframe.

COVERAGE

WIDTH	DEPTH	COVERAGE (per 600ml sausage)
5mm	5mm	24m
10mm	5mm	12m
15mm	7.5mm	4.5m
20mm	10mm	3m
25mm	12.5mm	2.4m
30mm	15mm	1.3m

Note: 15mm x 15mm = approx 3 lineal meters coverage (when used as a fillet for external applications as per AS4654). All coverage rates are approximates and may vary dependent on application technique.

DETAILING

ARDEX RA 050 can be used to seal around drains, penetrations, floor/wall junctions, wall/wall junctions, and joints before the application of approved ARDEX Waterproofing Membranes and Protective Coatings. Ensure three sided adhesion does not occur.

For external applications, a bead size of 15mm x 15mm must be used for all change of directions/junctions in accordance with AS4654.

ARDEX RA 050 is not designed as a bond-breaker sealant, but can be used as a coving / fillet requirement. A bond breaker tape should be centrally placed over the sealant prior to approved ARDEX Liquid Membrane or ARDEX Protective Coating application when bond breaking requirements are needed.

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TECHNICAL DATA

CHARACTERISTICS	NOMINAL VALUE
Colour	Concrete Grey
Consistency	Stable paste
Curing Method	Moisture curing
Skin Formation	Ca. 10 min (@ 23°C / 50% R.H.)
Curing	2mm - 3mm/24hr (@ 23°C / 50% R.H.)
Hardness	40 ± 5 Shore A
Density	1,60 g/ml
Elastic Recovery (ISO 7389)	>75%
Maximum Allowed Distortion	± 20%
Maximum Tension (ISO 37)	1,50 N/mm ²
Elasticity Modulus 100% (ISO 37)	0,80N/mm ²
Elongation at Break (ISO 37)	400%
Service Temperature (fully cured)	-40°C - 90°C
Application Temperature	5°C - 35°C

Note: values may slightly vary depending on environmental factors such as temperature, moisture, and type of substrate.

PACKAGING

600ml sausage

CLEANING

Wash all equipment immediately on completion. Cured product may need to be mechanically removed.

SHELF LIFE

ARDEX RA 050 has a shelf life of 12 months when stored in the original, unopened packaging in a dry place at 23°C and 50% relative humidity.

SAFETY DATA

Causes eye irritation. Harmful to aquatic life with long lasting effects. In case of contact with eyes rinse with running water until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Wear protective gloves, clothing, eye, and face protection. Avoid inhaling dust/fumes/gas/mist/vapours/spray. Ensure adequate ventilation during mixing and application. Store locked up. Check with your local Council regarding the disposal of contents. Keep out of the reach of children. Call the Poisons Information Centre on 131 126 (AUS) and 0800 764 766 (NZ) or call a doctor if you feel unwell. At times updates can occur to data. For additional information and to ensure you have the most current technical

and safety information please consult the latest safety data sheets (SDS) and technical data sheets found on the product page at www.ardexaustralia.com

LIMITATIONS

Contact with bitumen, tar, or plasticizer releasing materials must be avoided as this will cause sealant discolouration and loss of adhesion. Do not apply primer ARDEX WPM 270 directly onto ARDEX RA 050 as this may negatively impact ARDEX RA 050 performance. Not suitable in aquariums, chlorinated environments, within continuous water immersion, or within waste water environments. Discolouration due to extreme prolonged temperatures / UV radiation may occur. The change in colour will not affect the performance properties of the sealant.

Before any substrate preparation, installation or finishing methods relating to ARDEX product are undertaken, please be aware of any potential risks and use appropriate PPE (personal protective equipment). This may involve contacting substrate manufacturers for Safety Data Sheets.

GUARANTEE

ARDEX Australia Pty Ltd ("we" or "us") guarantees this product ("our goods") is free from manufacturing defects and will perform to any applicable specification published by us for 10 years from the date of purchase. Our liability under this guarantee is limited at our option to replacement of the product, repair of any damage to the immediate surface or area of application of the product, or compensation, in each case if we are satisfied loss or damage was due to a breach of this guarantee. This guarantee does not apply if damage or loss is due to failure to follow published instructions or any act or circumstance beyond our control, including shade variations and efflorescence. If you wish to make a claim under this guarantee you must notify us (ARDEX Australia Pty Ltd, 20 Powers Road Seven Hills NSW 2147; Toll Free: 1800 224 070; Email: technicalservices@ardexaustralia.com) and provide evidence of your purchase of the product within 30 days of any alleged loss or damage occurring. We reserve the right to ask you for satisfactory evidence of any alleged loss or damage. Any claim under this guarantee is at your cost. This guarantee is in addition to any rights or remedies you may have as a "consumer" under the Australian Consumer Law and to that extent you need to be aware that: "Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss of damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure".

DISCLAIMER

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 Australian Standards. Our instructions and recommendations are only for the uses they are intended. Users are advised to confirm that this product is suitable for their application and conforms with the specifications of

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the system. 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 affect 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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