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# ARDEX RA 88 PLUS

## Multi-Purpose Epoxy Repair Adhesive

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High compressive strength

Perfect for overhead and vertical repairs

Excellent non-drip & non-sag performance

Superior bond strength to most building materials

Purposely designed for a multitude of applications

Compliant to AS/NZS4020 - Potable Drinking Water

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### DESCRIPTION

ARDEX RA 88 PLUS is a two component, high performance bonding and repair adhesive. With excellent non-drip and non-sag performance, the ARDEX RA 88 PLUS multi-purpose bonding and repair adhesive is perfect for horizontal, vertical and overhead use (trowelable).

### USES

ARDEX RA 88 PLUS is designed for a multitude of uses including selected ARDEX Sheet Applied Waterproofing Membrane terminations, repairing holes and cracks in concrete, installing anchor bolts, or as a repair adhesive for almost any material including metal, concrete, brick, wood, stone, block, and other substrates.

### SURFACE PREPARATION

By way of mechanical method and vacuum cleaning as necessary, remove all dirt, dust, curing compounds, oils, grease, surface sealers, and any other contaminants prior to ARDEX RA 88 PLUS application. New concrete must be a minimum of 28 days old. Old or new concrete must be clean, profiled or textured. Prepare the surface by rough-grinding, scarifying, bush hammering, or by using other equipment that will give a roughened profile. A roughened surface is imperative for good adhesion.

When used as a bonding adhesive between two surfaces, ensure both surfaces to be bonded are sound and clean so there is no dust, dirt, grease, wax, oil, or any other contaminant present. Smooth surfaces should be mechanically roughened with a wire brush or sand paper before application.

### CARTRIDGE SET-UP

1. Unscrew the plastic cap and remove the plug.
2. Place cartridge into an ARDEX Heavy Duty Dual-Cartridge Caulking Gun.
3. Dispense a small amount of product into a disposable container until both materials flow evenly from the cartridge.
4. Attach mixing nozzle to cartridge and dispense a small amount of material until a consistent grey colour with no streaks is obtained.

### SPALL PATCHING APPLICATIONS

For repairs or patching, the area should be ground down to at least 13mm, but no greater than 16mm deep and a maximum of 76mm wide. Avoid a feathered edge by cutting around the spall into sound concrete with a grinder or circular saw using a diamond or concrete abrasive blade so the entire depth of the spall is consistent. Follow surface preparation instructions to prepare the spall area accordingly. Fill the area with the ARDEX RA 88 PLUS slightly above the finished surface level and then trowel flush.

### CRACK INJECTION REPAIR

1. Place and secure ARDEX Injection Ports with the ARDEX RA 88 PLUS, taking care not to leave any pin-holes. Port spacing should be approximately 15cm – 30cm apart. Do not allow the epoxy to block the passage between the port and the crack face.
2. Between the ARDEX Injection Ports, place additional ARDEX RA 88 PLUS within the prepared crack ensuring the entire face of the crack is sealed off and ports are securely fastened to the concrete. If the crack is evident and accessible on the back/underside of the concrete, prepare the crack accordingly and seal with ARDEX RA 88 PLUS prior to any ARDEX Crack Injection taking place.
3. Allow the ARDEX RA 88 PLUS to cure before injecting the crack with an ARDEX Crack Injection product.

### MEMBRANE TERMINATION

Once the termination (reglet) has been appropriately prepared and the ARDEX Sheet Applied Waterproofing Membrane installed accordingly, the termination (reglet) shall be filled with an ARDEX approved product such as ARDEX RA 88 PLUS. Fill the termination (reglet) with the ARDEX RA 88 PLUS slightly above the finished surface level and then trowel flush. Please review the specific ARDEX Waterproofing Membrane product datasheet for further details.

ARDEX RA 88 PLUS may also be used when fixing the Over-Flashing termination detail in place.

ARDEX RA 88 PLUS must be totally cured before performing any required flood testing.

### SWIMMING POOL TILE REPAIR

ARDEX RA 88 PLUS can be used to replace a pool tile underwater. Apply adhesive to the dry tile and adhere to side wall or bottom surface of the pool. Firmly hold in place for several minutes. ARDEX RA 88 PLUS is heavier than water and is not recommended for vertical crack or spall repair underwater.

### CURING

ARDEX RA 88 PLUS is generally cured 3 hours after application (@ 24°C). After this time, ARDEX RA 88 PLUS can be mechanically ground, overcoated with paint or other architectural coatings, and can be opened to full traffic.

### APPLICATION TEMPERATURE

Substrate and ambient air temperature should be between 5°C and 35°C. When the work environment or substrate temperature falls below 21°C, condition the product to 21°C – 24°C prior to use. Cold product may become too thick; product that is too warm will react faster than normal.

### COVERAGE

Please use the ARDEX Product Calculator on our website for coverage guides - [ardexaustralia.com](http://ardexaustralia.com)

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### TECHNICAL DATA

CHARACTERISTICS	TEST METHOD	VALUE
Colour (mixed)		Grey
Working Time		90mins @ 4°C 45mins @ 24°C 20mins @ 40°C
Service Temperature (after curing)		-7°C up to 50°C
Gel Time - 60 gram mass	ASTM C881	65mins @ 4°C 26mins @ 24°C
Tack Free Cure Time	ASTM C679	>6hrs @ 4°C 3hrs @ 24°C
Compressive Strength	ASTM D695	87 MPa @ 7 days
Bond Strength - Hardened to Hardened Concrete	ASTM C882	16.9 MPa @ 2 days 20.1 MPa @ 14 days
Bond Strength - Plastic to Hardened Concrete	ASTM C882	12.3 MPa @ 2 days
Heat Deflection	ASTM D648	51°C
Water Absorption	ASTM D570	0.32%
Linear Coefficient of Shrinkage	ASTM D2566	0.00015% @ 48 hrs

### PACKAGING

254ml and 627ml cartridge

During application, use the ARDEX Heavy Duty Dual-Caulking Gun.

### CLEAN UP

Clean tools and equipment with mild solvent. Do not allow epoxy to harden on tools and equipment. Cured material may only be removed mechanically.

### SHELF LIFE

24 months when stored in the original unopened packaging, in a dry place at 23°C and 50% relative humidity.

### LIMITATIONS

Product may discolour from UV exposure. Sanding before overcoating with paint or other architectural coatings will aid with adhesion - coating in a small test area is recommended prior to completing entire project. If overcoating with paint or other architectural coatings, the use of solvent-based coatings should be avoided. Do not thin product with solvents as this will prevent product curing. Product is not intended for repairing cracks subject to movement. ARDEX RA 88 PLUS is designed for small patch repairs only. A deeper or larger mass repair area will generate excessive heat which can result in swelling, smoking, and possibly cracking from the high heat generated by the chemical reaction.

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.

### SAFETY DATA

Harmful if swallowed. Causes eye and skin irritation and may cause serious eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Suspected of causing cancer. Do not release into the environment, toxic to aquatic life with long lasting effects. May be corrosive to metals. Wear protective gloves, clothing, eye and face protection Avoid inhaling dust/fumes/gas/mist/vapours/spray. Ensure adequate ventilation during mixing and application. In case of contact with the eyes rinse with running water until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Call the Poisons Information Centre on 131 126 (AUS) and 0800 764 766 (NZ) or call a doctor if you feel unwell or if swallowed. Do not induce vomiting. Check with your local Council regarding the disposal of contents and packaging. Keep out of the reach of children. Additional information is in the Safety Data Sheet (SDS) at [www.ardexaustralia.com](http://www.ardexaustralia.com)

### 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](mailto: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".

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### **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 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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This data sheet was issued in July 2023 and is valid for 3 years, in some instances a newer version may be published. Always refer to [www.ardexaustralia.com](http://www.ardexaustralia.com) for the latest technical data from ARDEX Australia Pty Ltd.