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# ARDEX RA 88 PLUS

## Multi-Purpose Epoxy Repair Adhesive

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Non-sag - Perfect for overhead and vertical repairs

High strength - Stronger than concrete > 55Mpa

Trowelable and cures underwater

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### DESCRIPTION

ARDEX RA 88 PLUS is a two component, high performance ceramic blend epoxy. No-drip, non-sag, repair adhesive perfect for horizontal, vertical and overhead use (trowelable). Fast cure time (approx. 2 hours) and when cured, over twice as strong as standard concrete. Ideal for use as a repair adhesive for almost any material, including metal, concrete, brick, wood, stone, block and other substrates. It can also be used for repairing holes, spalls and cracks in concrete, repairing rotted wood, installing anchor bolts and repairing hand rails.

### INSTRUCTIONS

Always be sure the bonding surfaces are prepared in advance before starting a new cartridge or mixing product. If possible, schedule dispensing to consume an entire cartridge at one time with no interruption of epoxy flow. When bonding two surfaces together, make sure to completely fill all the gaps between the surfaces to be bonded.

### SURFACE PREPARATION

Old concrete must be clean and profiled or textured. New concrete must be a minimum of 28 days old. Before using ARDEX RA 88 PLUS, make sure that the 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 a heavy-duty 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 colour with no streaks is obtained.

Cartridge is fully dispensed when plunger reaches halfway.

### CURING

ARDEX RA 88 PLUS can receive paint or other architectural coatings after curing for a minimum of 2 to 3 hours, and can be opened to full traffic after 2 to 3 hours or after the coating has cured, whichever is longer.

### SPALL PATCHING APPLICATIONS

**WARNING: Use ARDEX RA 88 PLUS for SMALL SPALL REPAIRS ONLY.**

A deeper or larger mass than recommended will generate excessive heat which can result in swelling of the repair, smoking, and possibly cracking from the high heat generated by the chemical reaction. For ARDEX RA 88 PLUS, the spall 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 clean spall area. For patching concrete or wood surfaces, fill the void with the ARDEX RA 88 PLUS epoxy to just above the surface level and trowel flush.

### CRACK INJECTION REPAIR

1. Place and secure injection ports with the ARDEX RA 88 PLUS, taking care not to leave any pin-holes. Port spacing should be approximately 15 – 30cm apart (typically the width of the concrete member). Do not allow the epoxy to block the passage between the port and the crack face.
2. Place additional ARDEX RA 88 PLUS between the ports making sure 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 side of the concrete member, seal with ARDEX RA 88 PLUS.
3. Allow the ARDEX RA 88 PLUS to cure before injecting the crack with an ARDEX Crack Injection product such as ARDEX RA 144.

### APPLICATION TEMPERATURE

Substrate and ambient air temperature should be between 4°C and 38°C. When the work environment or substrate 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.

### CLEAN UP

Clean tools and equipment with white spirits, mineral turps or aerosol dewatering agent or lubricant. Do not allow epoxy to harden on equipment.

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### COVERAGE

A 254mL cartridge will yield approximately 6 linear metres with a bead thickness of 6x6mm.

### PACKAGING

ARDEX RA 88 PLUS is sold in a 254mL cartridge.

### SHELF LIFE

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

### PLEASE PAY ATTENTION TO THE FOLLOWING

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. Hold in place for a few minutes. ARDEX RA 88 PLUS is heavier than water and is not recommended for vertical crack or spall repair underwater.

Do not thin with solvents, as this will prevent cure.

### 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)

### TECHNICAL DATA

<b>Colour:</b>	Grey
<b>Consistency/Viscosity:</b>	Non-sag
<b>Gel Time (+24°C):</b>	14 minutes
<b>Working Time (+24°C):</b>	30 minutes
<b>Cure Time (+24°C):</b>	3 hours
<b>Compressive Strength 7 days:</b>	42 MPa
<b>Bond Strength 2 days:</b>	8 MPa
<b>Bond Strength 14 days:</b>	11 MPa
<b>Heat Deflection Temp.:</b>	1.9 MPa
<b>Adhesion to Concrete:</b>	57.2°C
<b>Volatile Organic Compounds (VOC):</b>	60 g/L

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### **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 or 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. 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 datasheet was issued in October 2019 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.