



---

# ARDEX BR 340

**MICROTEC® Fibre-Reinforced, Polymer-Modified,  
Structural Concrete Patching and Repair Mortar**

---

Polymer modified & shrinkage compensated

Medium weight with good adhesion to concrete

MICROTEC® fibre-reinforced

Contains active corrosion inhibitor

Low resistivity (<15,000Ω cm)

Used in conjunction with ARDEX BRX 60 LO Low Output  
Anodes



---

**ARDEX Australia Pty Ltd**

20 Powers Road  
Seven Hills NSW 2147  
1300 788 780  
technicalservices@ardexaustralia.com  
www.ardexaustralia.com

**ARDEX New Zealand Ltd**

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

# ARDEX BR 340

## MICROTEC® Fibre-Reinforced, Polymer-Modified, Structural Concrete Patching and Repair Mortar

### DESCRIPTION

ARDEX BR 340 MICROTEC® Fibre-Reinforced, Polymer-Modified, Structural Concrete Patching and Repair Mortar is designed for reinstating concrete surfaces damaged through concrete spalling and other chemical or mechanical causes. ARDEX BR 340 is a high-build patching mortar and is capable of being applied up to a thickness of 80mm on vertical, horizontal and overhead surfaces. It is designed to be used in conjunction with an appropriate ARDEX bonding bridge or primer and ARDEX BRX 60 LO Low Output Anodes for ultimate corrosion control and cathodic prevention.

- Polymer modified
- Shrinkage compensated
- MICROTEC® fibre-reinforced
- Medium weight
- Good adhesion to concrete
- Contains active corrosion inhibitor
- Low resistivity (<15,000Ω cm)
- Used in conjunction with ARDEX BRX 60 LO Low Output Anodes

### PREPARATION

The substrate must be clean, sound and free from all grease, oil, dust and other surface contaminants such as curing membranes. Damaged or contaminated concrete must be removed to obtain a good bond to the substrate. Cut the edges of the repair vertically to a minimum depth of 10mm. All surface laitance must be removed. Exposed reinforcing steel should be cleaned to remove all residual rust and concrete residue. In accordance to best practice, as outlined in the ACRA Guide to Concrete Repair and Protection Concrete HB84-2006 Chapter 6, concrete should be removed from around and behind all corroding rebar to avoid future contamination of the repaired area. Exposed reinforcing must be cleaned and protected with ARDEX BR 10 ZP Zinc-rich Primer in a continuous film. If ARDEX BRX 60 LO Low Output Anodes are used, please refer to respective Technical Datasheet for surface preparation, rebar priming and installation methods.

### PRIMING

The prepared substrate should be pre-soaked for 24 hours but at least 2 hours before applying ARDEX BR 340. The surface should be mat damp but without standing water. The substrate should then be primed by employing one of the following methods:

1. ARDEX WR Prime should be applied and worked into the substrate. Once the ARDEX WR Prime has reached initial cure, ARDEX BR 340 can be applied.
2. A slurry bond coat of ARDEX WR Prime and ARDEX BR 340 should be made to a stiff, brushable consistency and applied to the dampened surface.

Apply the ARDEX BR 340 as soon as the bonding bridge is tacky enough to hold the weight of the mortar. ARDEX BR 340 should be applied wet-on-wet. Do not let the bonding layer dry out completely. If the surface is too wet or too dry application of ARDEX BR 340 may be difficult.

### Priming for reinforcement steel

Use ARDEX BR 10 ZP Zinc-rich Primer as primer for steel reinforcement in concrete. Apply ARDEX BR 10 ZP in a continuous film; apply a second coat if needed. ARDEX BR 10 ZP should be cured prior to applying the repair mortar. If ARDEX BRX 60 LO Low Output Anodes are used, please refer to respective Technical Datasheet for surface preparation, rebar priming and installation methods.

### MIXING

Use approximately 3.2 – 3.5L water per 20Kg bag of ARDEX BR 340. Measure the appropriate amount of water into a clean suitable sized pail and then add approximately half to two-thirds of the powder to the water while mixing with a heavy duty electric drill and spiral mixing paddle on slow-medium speed (approx. 400-600 rpm). Mix to fully wet-out the powder; then, add the remaining powder fully mixing to disperse the powder. Once all of the powder has been added, mix for approximately 2 to 3 minutes to fully homogenise. Let the mixed mortar sit for 1 – 2 minutes, then briefly mix the mortar again prior to placement.

### APPLICATION

ARDEX BR 340 is to be applied onto the prepared primed substrate. Make sure that the patching mortar is applied whilst the priming layer is still wet (wet-on-wet). Apply using a trowel or by hand (wearing chemically resistant gloves). Make sure that the material is sufficiently forced and compacted into cracks and holes to ensure that all voids are filled.

# ARDEX BR 340

## MICROTEC® Fibre-Reinforced, Polymer-Modified, Structural Concrete Patching and Repair Mortar

---

Note: Minimum application thickness is 10mm. If repair mortar slumps, remove all ARDEX BR 340 and re-apply after re-priming the substrate, then apply the repair mortar at a reduced thickness.

### FINISHING

Once the mortar has set, and the surface is hard enough, work can begin on the surface finish. The surface finish can be dense and smooth by using a wooden or plastic float, or coarse and sandy by using a sponge to give the required effect.

### CURING

It is recommended to apply an approved curing compound immediately after finishing. Curing compounds should be sprayed onto the surface of the finished ARDEX BR 340 according to the Technical Datasheet of the curing compound.

### OVERCOATING

The repaired patch can be rendered over with a suitable ARDEX Render or Coating. Refer to relevant Technical Datasheets for application of overcoats.

### SET TIMES

Pot Life @ 23°C: 30 – 45 min

Initial Set: 45 - 90 min

Final Set: 90 min - 3 hrs

### PACKAGING

ARDEX BR 340 is packed in polylined paper sacks – net weight 20kg.

### COVERAGE

20kg of powder makes approximately 12.4 litres of mortar. At 10mm thickness: approximately 1.25m<sup>2</sup>

### SHELF LIFE

ARDEX BR 340 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.

### Pay Attention to the following:

The repaired area should always be overcoated with an appropriate coating or sealer. ARDEX BR 340 is not meant to be left exposed. For carbonation resistance a EN1504-2 compliant carbonation resistant coating should be applied.

### CLEAN UP

Clean all tools in water immediately after use.

### SAFETY DATA

This product may cause irritation and an allergic reaction to the skin. It may cause serious eye injury and irritation to the respiratory system. 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. 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, dispose of packaging thoughtfully and recycle where possible. 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. Additional information is in the Safety Data Sheet (SDS) at [www.ardexaustralia.com](http://www.ardexaustralia.com)

## TECHNICAL DATA

<b>Water</b>	3.2 - 3.5l/20kg
<b>Wet Density</b>	~1.90g/cc
<b>Pot Life @23°C</b>	45 - 90m
<b>Initial Set</b>	45 - 90m
<b>Final Set</b>	90m - 3h

## EN 1504-3 R3 TESTING DATA

	Test Method	R3 Requirements	Typical Results
<b>Compressive Strength</b>	EN 12190	≥ 25MPa	<b>1d</b> ~10MPa <b>7d</b> 20-30MPa <b>28d</b> 30-40MPa
<b>Chloride Ion Content</b>	EN 1015-17:2000	≤ 0.05%	0.005%
<b>Adhesive Bond</b>	EN 1542	≥ 1.5MPa	≥ 1.5MPa
<b>Shrinkage and Expansion</b>	EN 12617-4	≥ 1.5MPa	≥ 1.5MPa
<b>Elastic Modulus</b>	AS 1012.17*	≥ 15GPa	17.5MPa
<b>Coefficient of Thermal Expansion</b>	AASHTO T336-11 **	declared value	9.9ms/°C
<b>Capillary Absorption</b>	EN 13057:2002	≤ 0.5kg/(m <sup>2</sup> Xh <sup>0.5</sup> )	0.12kg/(m <sup>2</sup> Xh <sup>0.5</sup> )

## ADDITIONAL TECHNICAL DATA

	Test Method	Typical Results
<b>Flexural Strength</b>	EN 12190	<b>28d</b> ~8MPa
<b>Drying Shrinkage 23°C 50% RH</b>	AS 1478.2-2005	<b>7d</b> <400ms <b>28d</b> <700ms
<b>Bulk Resistivity</b>	internal method	<b>7d</b> <5000 Ω.cm <b>28d</b> <8000 Ω.cm <b>56d</b> <10,000 Ω.cm

\*AS1012.17 done in place of EN 13412

\*\*AASHTO T336-11 done in place of EN1770

ms = micro strains

### 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. 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.

© ARDEX Australia Pty Ltd 2019.

All aforementioned products are the trade marks of ARDEX Australia Pty Ltd, its licensors and affiliates.

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.