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# ARDEX CE 826

**Rapid Setting Micro Concrete**

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Trafficable in 2 - 3 hours

Installs from 20mm up to 250mm

For applications where time is critical

High early strength and shrinkage compensated

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# ARDEX CE 826

## Rapid Setting Micro Concrete

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### DESCRIPTION

ARDEX CE 826 is a High Performance, Rapid Curing Structural Micro Concrete which is both pumpable and pourable designed for deteriorated exterior and interior concrete above, or below grade.

Designed for infrastructure projects where rapid return to service is critical. Fast-setting performance, allowing for foot traffic within 1 - 2 hours and vehicular traffic in 2 - 3 hours.

### RECOMMENDED USES

- Bridge bearings
- Pavement repairs
- Structural grouting
- Base plate grouting
- Marine environments
- Airport lighting trenches

### ADVANTAGES

- Chloride free
- Wear resistant
- Dimensional stable
- High bond to concrete
- High early strength gain
- Suitable for deep pours
- High chloride and sulphate resistance

### SURFACE PREPARATION

The substrate must be clean, sound, and free from all grease, oil, dust, laitance, and other surface contaminants such as curing compounds. Damaged or contaminated concrete must be removed to obtain a sound bond to the substrate.

Cut the edges of the repair to a minimum depth of 20mm until the area is squared or boxed in shape. Greater depth is required for heavy duty trafficable applications. Exposed reinforcing steel should be cleaned (minimum ST 3 cleanliness) to remove all residual rust and concrete residue. Concrete must be removed from around and behind all corroding rebar to avoid future contamination of the repaired area. The substrate must be prepared correctly to remove all the deteriorated and detached concrete until a strong substrate with a rough surface is obtained. Any areas previously repaired and which are not perfectly bonded must also be removed.

### PRIMING FOR REINFORCEMENT STEEL

To the prepared reinforcing steel, apply one continuous and uniform coat of ARDEX BR 10 ZP. If a continuous and uniform coat has not been achieved, apply a second

coat of ARDEX BR 10 ZP once the first coat has dried (1hr @ 20°C). Again, allow the second coat to dry before continuing with the repair. ARDEX BR 10 ZP should be cured prior to applying the ARDEX CE 826.

If ARDEX BRX 60 LO Anodes are to be installed, please refer to the Product Datasheet for surface preparation, rebar priming, and installation methods.

### SUBSTRATE PRIMING

To reduce the porosity of the substrate, priming the prepared substrate with ARDEX WR Prime is recommended. Alternatively, the prepared substrate can be pre-soaked using water for at least 2 hours before applying ARDEX CE 826. Remove excess freestanding water on the surface prior to the application of ARDEX CE 826. The surface should be Saturated Surface Dry (SSD) without standing water.

### FORMWORK PREPARATION

The area to be poured must be enclosed with good quality rigid watertight formwork. The formwork must be able to rigidly confine the ARDEX CE 826 until it has set. It is recommended to use an appropriate form release agent. Formwork should be flushed out just prior to application without any standing water present.

### MIXING

Each 20kg bag of ARDEX CE 826 will require approximately 2.0 – 2.5L of water. Measure approximately 80% of the required water into a tumble style agitator and mix for approximately 1 minute. Then add the remaining water and mix for about 2 – 3 minutes, or until it is fully homogenized. The mixed material must be poured immediately for best results. Mix only the amount of material that can be placed within 15 minutes.

### APPLICATION

ARDEX CE 826 is to be applied onto the pre-wetted or primed substrate. Make sure that the micro concrete is applied whilst the substrate is still damp, or the substrate primer is still slightly tacky. It should be applied in a continuous pour to avoid cold joints. It is recommended to smooth the material with a steel trowel after the last pour.

For ease and efficiency of application, ARDEX CE 826 can be pumped using a suitable automatic concrete mixing pump. Follow the instructions as set by the pump manufacturer. It is important to note that ARDEX CE 826 is an extremely fast setting material and should be pumped in shorter distances than with regular cementitious products.

ARDEX CE 826 can be installed from a minimum depth of 20mm up to 250mm. For application depths greater than 100mm, contact ARDEX for further information about aggregate addition for large volume pours.

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### TECHNICAL DATA

Mixing Ratio	2.0 – 2.5L of water per 20kg bag
Coverage	20kg bag yields <ul style="list-style-type: none"><li>• 10L of grout @ 10% water</li><li>• 10.5L of grout @ 12.5% water</li></ul>

CHARACTERISTIC	TEST METHOD	TEST RESULT
Compressive Strength: 2 hours 4 hours 1 day 7 days 28 days	BS EN 12190 : 1999	≥ 20 Mpa ≥ 35 Mpa ≥ 50 Mpa ≥ 60 Mpa ≥ 75 Mpa
Flexural Strength 7 days 28 days	BS EN 196-1: 2006	≥ 6 Mpa ≥ 8 Mpa
Change in Height	ASTM C1090 : 2015	0% to 1%
Chloride Content	BS EN 1015-17 : 2000	≤ 0.02%
Fresh Density	BS EN 1015-17-2000	2250 ± 100kg/m <sup>3</sup>
Setting Time	ASTM C953 : 2010	Initial Set > 20 min Final Set < 60 min

Technical data according to ARDEX Quality Standards. All data based on a partial, in-lab mix at 23±2°C and RH 55±10%, water powder ratio 0.111

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### CURING

It is recommended to apply a curing compound in a consistent film immediately after finishing. Alternatively after the product has set, wet hessian with polythene sheeting taped down at the edges can be used for a minimum 7 days.

### RENDER APPLICATION

ARDEX Render can be applied over the cured patch repair area. The surface may need to be roughened (light grinding) prior to render application. All curing compounds must be removed prior to ARDEX Render application.

Approved ARDEX Render products include:

- ARDEX WR 100
- ARDEX WR 80 FR
- ARDEX WR 120 FR

### PROTECTIVE COATING

ARDEX CE 826 can be left exposed, but to ensure structure longevity it is recommended to apply an ARDEX Protective Coating. The surface may need to be lightly roughened (cup grind) prior to coating application. All curing compounds must be removed prior to ARDEX Protective Coating application. The protective coating will also provide ARDEX CE 826 a decorative and uniform appearance to the structure.

Approved ARDEX Protective Coatings include:

- ARDEX WPM 310
- ARDEX WPM 330

### PACKAGING

20kg bag.

### SHELF LIFE

ARDEX CE 826 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.

### CLEAN UP

All grouting equipment shall be thoroughly washed with clean water after grouting operations for that day are completed.

### LIMITATIONS

Do not apply ARDEX CE 826 if ambient temperature and or substrate temperature is below 10°C or above 35°C. Store bags and water reservoir for mixing in a shaded or conditioned space. Cool water and powder can greatly extend the working time in hot conditions.

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

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. Suspected of causing genetic defects. May cause cancer. May cause damage to organs through prolonged or repeated exposure.. Wear protective gloves, protective clothing, eye protection and face protection. Store locked up. Store in a well-ventilated place. Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation. Always refer to product safety datasheet (SDS) at [ardexaustralia.com.au](http://ardexaustralia.com.au).

### 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, 2 Buda Way, Kemps Creek, NSW 2178; 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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