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# ARDEX CE 300

## PU Hydrophilic Injection Resin

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Rapid foam and gel times

Solvent free and non-flammable

Highly flexible for live structures

Single component and low viscosity

Expands up to 6 times initial volume

Excellent adhesion with most surfaces

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**ARDEX Australia Pty Ltd**

2 Buda Way,  
Kemps Creek, NSW 2178  
Phone: 1300 788 780  
Email: [technicalservices@ardexaustralia.com](mailto:technicalservices@ardexaustralia.com)  
[www.ardexaustralia.com](http://www.ardexaustralia.com)

**ARDEX New Zealand Ltd**

15 Alfred Street, Onehunga Auckland,  
New Zealand 1061  
Phone: 0800 227 339  
Email: [info@ardexnz.com](mailto:info@ardexnz.com)  
[www.ardex.co.nz](http://www.ardex.co.nz)

# ARDEX CE 300

## PU Hydrophilic Injection Resin

### DESCRIPTION

ARDEX CE 300 is a single component high performance hydrophilic injection polyurethane. ARDEX CE 300 is a low viscosity hydrophilic polyurethane with high elongation for sealing leaking cracks or joints where movement is possible and structures with continuous moisture exposure. Generally, the ARDEX CE 300 is most suitable for use in consistently damp or wet environments.

### FEATURES

- Rapid foam and gel times
- Solvent free and non-flammable
- Highly flexible for live structures
- Single component and low viscosity
- Expands up to 6 times initial volume
- Excellent adhesion with most surfaces

### USES

- Tunnels
- Car parks
- Basements
- Retaining walls
- Water and wastewater treatment

For other types of environments please contact ARDEX Technical Services ([technicalservices@ardexaustralia.com](mailto:technicalservices@ardexaustralia.com)).

### SUBSTRATE PREPARATION

Dust, debris, loose material, and any other contaminants must be removed from the surface of the crack or joint to evaluate the full extent of the crack or joint for injection and assist in proper hole drilling.

### PACKER PREPARATION

The spacing of the high pressure injection packers should match the thickness of the concrete substrate i.e., 300mm thickness / 300mm spacing. Spacing can be reduced to provide more spread of ARDEX CE 300 if required.

Starting at the lowest point, drill appropriate size holes at a 45° angle to intersect the prepared crack or joint. The intersection of the crack or joint should be at half the thickness of the concrete substrate. Repeat this step on alternate sides of the crack or joint, and continue to repeat along the entire length of the crack or joint.

At the time of injection, cracks or joints that are not actively leaking but experience periodic water leaks should be flushed with water. This step is necessary only when the crack or joint is completely dry and lacks sufficient moisture to activate the ARDEX CE 300 reaction.

### INJECTION METHODS

A single component pump designed for high pressure injection can be used when there is water present within the structure for the resin to react and begin foaming.

A twin piston pump can be used with the ARDEX CE 300 when mixed with water in the pump to create differing density of foam.

Below mix ratio is 1 part water : 3 parts ARDEX CE 300.

CHARACTERISTIC	NOMINAL VALUES
Foaming Factor	3 - 3.5
Begin Foaming	30 secs
Gel Time	55 secs
End Foaming	180 secs

Note: Results @ 25°C ambient temperature.

### APPLICATION

Starting at the lowest point, slowly pump ARDEX CE 300 into the prepared packer until product appears on the face of the crack or joint. Repeat this process on the next prepared packer until the entire length of the crack or joint is complete.

### TECHNICAL DATA

CHARACTERISTIC	TEST METHOD	NOMINAL VALUES
Physical properties - Gel Foam		
Colour		Pale yellow
Viscosity	ASTM D-4016	400 cps
Specific Gravity	ASTM D-1475	1.16
Flash Point	ASTM D-93	>200°F >93°C
Physical properties - Cured		
Elongation	ASTM D-3574	450%
Tensile Strength	ASTM D-3574	1950 psi
Toxity		Non-toxic

### PACKAGING

20L steel drum

### CLEANING

Immediately clean tools, mixers, and any other equipment with solvent. Consult pump/equipment manufacture for correct cleaning method(s). Failing to do so may damage or reduce the service life on pump/equipment. Cured product may require removal by mechanical methods.

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### SHELF LIFE

ARDEX CE 300 has a shelf life of 12 months when stored in original unopened packaging, in a dry place at 23°C and 50% R.H.

### LIMITATIONS

Do not apply product at 10°C and falling temperature as product may crystallise. The product will react if moisture is absorbed into an open container - containers must be sealed tightly when not in use.

### SAFETY DATA

May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Keep out of reach of children. Do not breathe mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, eye protection and face protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice/ attention. If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician/first aider. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor/physician/first aider/if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation. To ensure you have the most current technical and safety information please consult the latest data sheets found on the product page 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, 10 Giba Drive, 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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