ARDEX CE 330

PU High Foaming Injection Resin

Controllable reaction times

Excellent resistance and durability

Cures inert, non-toxic permanent seal

Expands up to 25 times initial volume

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DESCRIPTION

AREDX CE 330 is a low viscosity high foaming polyurethane injection resin. Mixed with ARDEX CE 330 Accelerator to form a high foaming fast setting water reactive injection resin. Being a hydrophobic formulation, when reacted with minimal amounts of water, the resulting foam will maintain its physical form and not be subject to shrinkage due to wet/dry cycles. ARDEX CE 330 is designed for the sealing/ grouting and elastic connection of concrete cracks, rock fissures, structures etc.

FEATURES

- 100% solids
- Controllable reaction times
- Excellent resistance and durability
- Cures inert, non-toxic permanent seal
- Expands up to 25 times initial volume

USES

- Tunnels
- Basements
- Retaining walls
- Ground anchors
- Ground stabilisation
- Concrete foundations

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

SUBSTRATE PREPARATION

Dust, debris, loose material, and any other contaminants must be removed from the surface of the crack or fissure 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 330 if required.

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

INJECTION METHOD

A single component pump designed for high pressure injection can be used.

MIXING ACCELERATOR

Calculate the required volume of ARDEX CE 330 Accelerator to be combined with ARDEX CE 330 within the range specified below.

Thoroughly stir the ARDEX CE 330, add ARDEX CE 330 Accelerator, and mix using a slow speed mixer (400 rpm) for minimum 1 - 2 minutes (until mixed material is homogeneous) Do not use a high speed mixer.

Reaction times - 5% ARDEX CE 330 Accelerator dosage				
Temperature	**5°C**	**10°C**	**15°C**	**25°C**
Start Foaming	10 secs	9 - 10 secs	9 - 10 secs	8 - 9 secs
End Foaming	56 secs	58 secs	47 secs	45 secs
Foaming Factor	35% - 50%	35% - 50%	35% - 50%	35% - 50%

Reaction times - 10% ARDEX CE 330 Accelerator dosage				
Temperature	**5°C**	**10°C**	**15°C**	**25°C**
Start Foaming	10 - 11 secs	10 - 11 secs	9 secs	8 secs
End Foaming	47 secs	45 secs	38 secs	32 secs
Foaming Factor	35% - 50%	35% - 50%	35% - 50%	35% - 50%

APPLICATION

Commence from the widest part of the crack and proceed injecting outwards along the crack or fissure in each direction. Turn on pump and slowly increase pressure to a maximum of 30 bar - amount of pressure may vary depending on crack width and depth. Stop pumping for every one litre injected and allow 1 - 2 minutes for reaction. Start and stop injection until the packer will no longer accept material or if the specified pressure has been reached. Move to the next packer and repeat process. Continue until crack is full and has been adequately sealed.

Monitor the effectiveness of the work and allow to settle for at least 48 hours before returning to site and completing additional injection if required.

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TECHNICAL DATA

CHARACTERISTIC	TEST METHOD	NOMINAL VALUES
Physical properties - ARDEX CE 330		
Colour		Amber
Viscosity	ASTM D-4016	100 cps
Specific Gravity	ASTM D-1475	1.17
Flash Point	ASTM D-93	>200ºF >93ºC
Physical properties - Cured		
Elongation	ASTM D-3574	100%
Tensile Strength	ASTM D-3574	42 psi
Shear Strength	ASTM C-273	20 psi

CHARACTERISTIC	TEST METHOD	NOMINAL VALUES
Physical properties - ARDEX CE 330 Accelerator		
Colour		Pale Yellow
Viscosity	ASTM D-4016	35 cps
Specific Gravity	ASTM D-1475	0.95
Flash Point	ASTM D-93	216ºF 102ºC

PACKAGING

ARDEX CE 330 - 20L steel drum

ARDEX CE 330 Accelerator - 1L steel tin

CLEANING

Immediately clean tools, mixers, and any other equipment with solvent. Failing to do so may damage or reduce the service life on equipment. Cured product may require removal by mechanical methods.

SHELF LIFE

ARDEX CE 330 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

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

SAFETY DATA

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. 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. 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

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) 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

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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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