



ARDEX CE 900

Low Carbon GGBS Grout

Ultra-fluidity

>50% recycled content

No formation of hydrogen gas

Extended working time – allows long distance pumping

Ideal for grouting of PT, soil nails, and ground anchors

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ARDEX CE 900

Low Carbon GGBS Grout

DESCRIPTION

ARDEX CE 900 is a low carbon high flow, aggregate free cement grout. When mixed with water it forms a structural grout for grouting of PT ducts, soil nails, ground anchors and other grouting applications. It is formulated using a blend of SCM, cement, and special chemical additives to meet stringent requirements.

The use of unique blend of additives in ARDEX CE 900 stabilises the cement particles and allows the grout to pump long distances without segregation.

USES

- Soil Nails
- Contact grouting
- Ground anchors
- Annulus grouting PT ducts

ADVANTAGES

- High strength
- Ultra-fluidity
- Chloride free
- Low permeability
- >50% recycled content
- No generation of hydrogen gas
- High bonding strength to tendons
- Full encapsulation of tendons and wire strands
- No bleeding and sedimentation of cement particles

SUBSTRATE PREPARATION

Check to ensure the pump lines and grout lines are free from blockages by flushing out with potable water. The ducts should be checked by flushing out with air or other approved means to remove excess water from the pump and grout lines. Check that all connections are sealed prior to grouting.

MIXING

Mix only the amount of material that can be placed within 60minutes.

The grout can be mixed to flowable or fluid consistencies, depending on the job application. Each 20kg bag of ARDEX CE 900 will require approximately 6.6L – 7.2L of clean potable water.

Pre-dampen the inside of the clean mixer and remove any excess water. Measure approximately 90% of the required water into a high shear mixer and add slowly the entire

contents of the bag while mixing. Mix for approximately 3 – 4 minutes. Then add the remaining water and mix for about 2 – 3 minutes or until it is fully homogenized. The water content of the grout should be kept as low as possible, and not exceed the maximum recommended water ratio of 7.2L of water per 20kg. It is important to pump the grout in a steady flow while the grout is agitated continuously to avoid gelling.

APPLICATION

Connect the grout lines to the duct inlet tubes and commence pumping until the grout flows out from the adjacent tube. Lock the inlet tube to prevent further outflow of the grout and disconnect pump pressure line and proceed to the next inlet tube.

PACKAGING

20kg bag

CLEAN UP

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

SHELF LIFE

ARDEX CE 900 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.

LIMITATIONS

Do not over-water as this can lead to segregation, shrinkage and strength reduction. Keep unrestrained area to the minimum, the grout performs best when fully restrained. 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.

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TECHNICAL DATA

Mixing Ratio	6.6L - 7.2L clean water per 20kg bag
Coverage	ARDEX CE 900 20kg yields: <ul style="list-style-type: none">• 12.2L of grout @ 30% water• 12.8L of grout @ 33% water• 13.4L of grout @ 35% water

CHARACTERISTIC	TEST METHOD	TEST RESULT
Sieve Test	BS EN 445 : 2007	No lumps
Compressive Strength:		
1 day	BS EN 12190 : 1999	> 10 Mpa
7 days		> 40 Mpa
28 days		> 70 Mpa
Fluidity Test		$t_0 \leq 25s$
Initial	BS EN 445 : 2007	$t_{30} \leq 25s$ and
Final @ 30 min		$1.2t_0 \geq t_{30} \geq 0.8$
Wick Induced Test:		
Volume Change	BS EN 445 : 2007	0 to + 0.3%
Bleeding		< 0.3%
Chloride Content	BS EN 1015-17 : 2000	0.02%
Fresh Density	BS EN 1015-17-2000	2000 ± 100kg/m ³

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 0.33.

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SAFETY DATA

May be corrosive to metals. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects. Do not breathe dust/fume. 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.

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, Kempers 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 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. 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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