



ARDEX CE 902

Post Tension Grout Additive

Rapid strength gain

No plastic shrinkage

No formation of hydrogen gas

Extended working time – allows long distance pumping

Ideal for grouting of stressed cables, bars and anchorages

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Post Tension Grout Additive

DESCRIPTION

ARDEX CE 902 Ultra Flow PT Grout Additive is a blend of unique plasticizing and expansion agents when mixed with Ordinary Portland Cement and water forms a structural grout for grouting of post-tensioning ducts and other grouting applications. It is formulated using a blend of cement and special chemical additives to meet stringent requirements.

The use of unique blend of additives in ARDEX CE 902 stabilizes the cement particles and allows the grout to be pumped long distances without segregation.

USES

- Soil and rock grouting
- High flow grouting application
- Grouting of small openings over long distance
- Grouting of post tensioning cable ducts horizontally and vertically

ADVANTAGES

- Ultra-fluidity
- Chloride free
- Low permeability
- Corrosion protection
- No generation of hydrogen gas
- High bonding strength to tendons
- Full encapsulation of tendons and wire strands
- No bleeding and sedimentation of cement particles

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 60 minutes.

The grout can be mixed to flowable or fluid consistencies, depending on the job application. Each 10kg bag of ARDEX CE 902 will require approximately 200kg of Portland Cement and 69 – 75L 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 slowly add ARDEX CE 902 into the water, then slowly add 200kg of Portland cement. Mix for 3 - 4 minutes until it is fully homogenised.

The water content of the grout should be kept as low as possible, and not exceed the maximum recommended water ratio of 75 litres of water per 10 kg of ARDEX CE 902. 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.

PAY ATTENTION TO THE FOLLOWING:

- Do not over-water. 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.

PACKAGING

10kg bag

CLEAN UP

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

SHELF LIFE

ARDEX CE 902 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.

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TECHNICAL DATA

Mixing Ratio	10kg ARDEX CE 902: 200kg Ordinary Portland Cement
Water Consumption	69L – 75L per 210kg mix
Coverage	10 kg of powder yields: <ul style="list-style-type: none">• 128L of grout @ 31% water• 136L of grout @ 33% water• 141L of grout @ 35% water

CHARACTERISTIC	TEST METHOD	TEST RESULT
Sieve Test	BS EN 445 : 2007	No lumps
Compressive Strength: 1 day 7 days 28 days	BS EN 12190 : 1999	> 30 Mpa > 70 Mpa > 90 Mpa
Fluidity Test Initial Final @ 30 min	BS EN 445 : 2007	$t_0 \leq 25s$ $t_{30} \leq 25s$ and $1.2t_0 \geq t_{30} \geq 0.8$
Wick Induced Test: Volume Change Bleeding	BS EN 445 : 2007	0 to + 0.3% < 0.3%
Chloride Content	BS EN 1015-17 : 2000	0.02%
Fresh Density	BS EN 1015-17-2000	$2000 \pm 100\text{kg/m}^3$
Setting Time	BS EN 445 : 2007	Initial Set > 180 min Final Set < 480 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 0.33 using Boral SL Cement.

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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 damage to organs through prolonged or repeated exposure. Do not breathe dust/fume. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, eye protection and face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/ attention. Immediately call a POISON CENTER/doctor/physician/first aider. IF ON SKIN: Wash with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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.

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.

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 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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