



ARDEX CE 901

Post Tension Grout

Ultra-fluidity

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

ARDEX Australia Pty Ltd
2 Buda Way,
Kemps Creek, NSW 2178
Phone: 1300 788 780
Email: technicalservices@ardexaustralia.com
www.ardexaustralia.com

ARDEX New Zealand Ltd
15 Alfred Street, Onehunga Auckland,
New Zealand 1061
Phone: 0800 227 339
Email: info@ardexnz.com
www.ardex.co.nz

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Post Tension Grout

DESCRIPTION

ARDEX CE 901 Ultra Flow PT Grout is a high strength, aggregate-free cement grout. When mixed with water it forms a structural grout for grouting of post-tensioning ducts and other grouting applications. It is formulated using a blend of portland cement and special chemical additives to meet stringent requirements.

The use of unique blend of additives in ARDEX CE 901 stabilises the cement particles and allows the grout to pump 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

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 60 minutes.

The grout can be mixed to flowable or fluid consistencies, depending on the job application. Each 20kg bag of ARDEX CE 901 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 901 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. 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.

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. 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. 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.

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TECHNICAL DATA

Mixing Ratio	6.6L - 7.2L clean water per 20kg bag
Coverage	ARDEX CE 901 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 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 100kg/m ³

Technical data according to ARDEX Quality Standards. All data based on a partial, in-lab mix at 23 \pm 2°C and RH 55 \pm 10%, water powder ratio 0.33 using Boral SL Cement.

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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".

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