



ARDEX CE 980

Thixotropic Grout

Gravity resistant

Long pump life

High ultimate strength

Suitable for top-down, rockbolt grouting



ARDEX-QUICSEAL SINGAPORE PTE. LTD.
26 Tuas Ave 4 Singapore 639376
Telephone: +65 6861 7700
Fax: +65 6741 4666
Email: sales@ardex-quickseal.com
Website: www.ardex-quickseal.com

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Thixotropic Grout

DESCRIPTION

ARDEX CE 980 is a thixotropic cementitious grout which flows under pumping pressure but remains stable under gravity forces, making it suitable for a wide range of civil engineering applications. ARDEX CE 980 has been widely used in various tunnel and mining applications due to its ease of use and reliability. The silica fume provides added density and durability for 100 year design life.

RECOMMENDED USES

- Rock bolt grouting
- Ground stabilisation
- Top down grouting
- Void filling

ADVANTAGES

- Gravity resistant
- Long Term durability
- No segregation
- Long pump life
- High strength
- High load transfer to rock/ground

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

The grout can be mixed with different water ratios, depending on the job application. Pre-dampen the inside of the clean mixer and remove any excess water. Measure approximately 80% of the required water into a high shear mixer and slowly add ARDEX CE 980 while mixing. Mix for approximately 2 – 3 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 10 litres of water per 25 kg of ARDEX CE 980. It is important to pump the grout in a steady flow while the grout is agitated continuously to avoid gelling. Mix only the amount of material that can be placed within 60 minutes.

PUMPING

Once the grout has been mixed you need an effective pumping method to deliver it to the area of application.

Various models of batch mixers and continuous mixers are available for use, all with varying specifications. It is important to match your application's specifics with the capabilities of the mixer and pump. ARDEX can recommend the right mixer for your project.

Prior to pumping grout, rinse the mixer and charge the pump hopper with sufficient water to flush and cool the pump and all grout lines thoroughly. Check to ensure that all lines and hoses are clear and unobstructed. Once grout is mixed, it is important to keep it agitated continuously prior to pumping. It is important to pump continuously.

Following completion, dispose of excess production material in consideration of the environment. Carefully wash out mixer tanks and agitators into the pump hopper and pump the resulting washout material through the grout hoses to a suitable disposal site.

APPLICATION TEMPERATURES

The mix water's temperature should be kept as low as possible to prevent the grout from hydrating too rapidly. As with the water temperature, the higher the air temperature the more quickly the grout hydrates and sets. ARDEX specify mixing times and set times at an ambient temperature of 20°C. These times vary with temperature fluctuations, and adjustments will be required to compensate for this. In some cases, it may be necessary to cool the material, the mix water, keep the temperature as low as possible. It is estimated that every 10°C increase in temperature will halve the product set time. Likewise, every 10°C reduction will double the set time. ARDEX should be consulted for extreme temperature applications.

PACKAGING

ARDEX CE 980 is packed in polylined paper sacks – net weight 25kg

STORAGE AND SHELF LIFE

ARDEX CE 980 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.

CLEAN UP

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

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TECHNICAL DATA

Mixing Ratio	7.5 – 10 L of water per 25kg bag 0.3 – 0.4 (w/r) *
Coverage	17.25 L per 25kg bag @ 35% water

CHARACTERISTICS	TEST METHOD	RESULTS	
Compressive Strength 1 day 7 days 28 days	ASTM C942	@30% w/r ≥25MPa ≥50MPa ≥65MPa	@35% w/r ≥20MPa ≥40MPa ≥55MPa
Bleed	ASTM C940	0%	
Setting time Initial Final	ASTM C953	@ 35% w/r ≥150 minutes ≤ 300 minutes	
Fresh Wet Density	BS EN 1015-17-2000	1900 - 2100kg/m ³	

SAFETY PRECAUTIONS

ARDEX CE 980 should not come into contact with the skin, eyes or be swallowed. Ensure adequate ventilation and inhalation of the dust. Wear suitable gloves, goggles and other protective clothing. The use of barrier creams can provide additional skin protection. When working in confined areas suitable respiratory equipment must be used. In case of contact with skin, rinse with plenty of clean water then wash with soap and water. In case of contact with eyes, rinse immediately with plenty of clean water, then seek medical attention without delay. If swallowed, seek medical attention straight away, do not induce vomiting. The Safety Data Sheets (SDS) is available at www.ardex-quicseal.com

DISPOSAL/SPILLAGE

Please refer to the Safety Data Sheet for the safe handling, storage and disposal of chemical products.

DISCLAIMER

The technical datasheets are based on the latest information and given in good faith and represent the best of our knowledge and experience at the time of printing. They are primarily offered for users' consideration and evaluation. It is the responsibility of the user to conduct their own tests to validate the suitability of the products. It is also the responsibility of the user to ensure that the products are used and handled correctly and in accordance with any applicable standards, the product instructions, and recommendations and only for the uses they are intended. As we have no control

over site conditions and the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof. We also reserve the right to update the information at any time without prior notice to you to reflect our ongoing research and development program.

Offices:

Malaysia:
ARDEX QUICSEAL MALAYSIA SDN. BHD.
72-2, Jalan Puteri 2/2
Bandar Puteri 47100,
Puchong, Selangor Darul Ehsan
Malaysia
Phone: +603 8051 0311
Email: sales.malaysia@ardex-quicseal.com

Thailand:
ARDEX (THAILAND) CO., LTD
969 2nd Floor Moo, 13, Soi 45, Bangna-Trad Road
Bangkaew, Bangplee, Samutprakarn 10540
Thailand
Tel: +66 2316 3069 Fax: +66 2316 3075
Email: sales@ardex.co.th

Vietnam:
Mobile: +84 901 351 308
Email: sales@ardex-quicseal.com

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Hong Kong:

ARDEX SCORETECH LIMITED

1101 New Mandarin Plaza Tower B

14 Science Museum Road, TSTE

Telephone: +852 2529 6325 / +852 2165 0900

Email: sales@ardexscoretech.com

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