ARDEX CE 750

Rapid Setting High Build Repair Mortar

High early strength

Low shrinkage class C shrinkage compensated

Polymer modified

High strength

Trafficable after 2 hours

Chloride and sulphate resistant

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ARDEX CE 750

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DESCRIPTION
ARDEX CE 750 is a rapid setting, high early strength polymer modified cementitious structural repair mortar, suitable for a wide range of civil engineering applications where rapid return to service is critical.

ARDEX CE 750 is formulated using special blend of aggregates and advanced cement additives which form a Class C, high strength, highly durable repair mortar capable of being applied up to 50mm on vertical, horizontal and 30mm on overhead applications.

RECOMMENDED USES
- Structural Repairs
- Precast concrete repairs
- Marine structures
- Architectural repairs
- Fairing coat
- Bug hole repairs

ADVANTAGES
- High Early strength gain
- High Strength
- Chloride and sulphate resistance
- Excellent durability properties

SURFACE PREPARATION
The substrate must be clean, sound, and free from all grease, oil, dust, laitance, and other surface contaminants such as curing membranes. Damaged or contaminated concrete must be removed to obtain a good bond to the substrate. Cut the edges of the repair vertically to a minimum depth of 10mm until the area is squared or boxed in shape. Greater depth is required for heavy-duty trafficable applications. Exposed reinforcing steel should be cleaned to remove all residual rust and concrete residue. Concrete should be removed from around and behind all corroding rebar to avoid future contamination of the repaired area. The substrate must be prepared correctly to remove all the deteriorated and detached concrete until a strong substrate with a rough surface is obtained. Any areas previously repaired and which are not perfectly bonded must also be removed.

PRIMING
To reduce the porosity of the substrate, priming the prepared substrate with ARDEX P507 is recommended. Alternatively, the prepared substrate can be pre-soaked using water for at least 2 hours before applying ARDEX CE 750. Remove excess freestanding water on the surface prior to the application of ARDEX CE 750. The surface should be damp to touch without standing water.

STEEL PREPARATION
Completely expose any corroded steel in the repair area and break out at least 20mm minimum behind all exposed reinforcing steel. All loose scale and corrosion deposits must be removed and all reinforcing steel cleaned to a bright condition, with particular attention to the back of exposed steel bars.

Where reinforcement bars exhibit a reduction in diameter exceeding 20% of the original nominal size, they shall be removed and replaced. The Structural Engineer must be consulted to assess the impact on structural integrity and confirm the appropriate remedial action.

Where existing reinforcement is to be retained, the steel surface shall be cleaned to achieve a surface cleanliness of Sa 2.5 (ISO 8501-1) for chloride-contaminated concrete or Sa 2.0 for carbonated concrete. This level of preparation is typically achieved through wet abrasive blasting or conventional abrasive blasting techniques.

Where cleaned reinforcement will remain exposed to the atmosphere for an extended duration prior to repair (typically several days), an acceptable temporary corrosion protection measure involves preparing a cementitious slurry by mixing ARDEX CE 750 with ARDEX P 507, and applying a cement-rich coating uniformly to all exposed steel surfaces.

MIXING
Measure approximately 80% of the required water into a clean suitable sized pail and then add the entire contents of the bag while mixing with a heavy-duty electric drill on medium speed (approximately 680rpm). Add the remaining water and mix for about 2 – 3 minutes or until it is fully homogenized. The mixed material must be poured immediately for best results.
Mix only the amount of material that can be placed within 10-20 minutes.

APPLICATION
ARDEX CE 750 is to be applied onto the prepared primed substrate. Ensure the patching mortar is applied whilst the priming layer is still wet (wet-on-wet). Apply using a trowel or by hand (wearing chemically resistant gloves). The material must be sufficiently forced and compacted to the primed substrate, paying close attention around the prepared exposed reinforcing steel ensuring all voids are filled.

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Minimum application thickness is 10mm. If repair mortar slumps, remove all ARDEX CE 750 and re-apply after repriming the substrate, then apply the repair mortar at a reduced thickness.
Application temperature must be between 5°C - 35°C, paying close attention to substrate temperature and environment conditions.

FINISHING
Once the mortar has set to a stiffened consistency, and the surface is hard enough, work can begin on the surface finish. The surface finish can be dense and smooth by using a wooden or plastic float, or coarse and sandy by using a sponge to give the required effect. Ensure not to overwork the surface.

CURING
As with all cementitious products, ARDEX CE 750 must be cured properly to ensure maximum performance. Apply ARDEX P507 or approved curing compound after initial set on all exposed surfaces. Curing compounds should be applied on to the surface of ARDEX CE 750 in accordance with the Technical Data Sheet for the curing compound. If a curing compound is not used then the product must be maintained wet for minimum of 3 days.

PACKAGING
ARDEX CE 750 is supplied in 25kg bags.

STORAGE AND SHELF LIFE
ARDEX CE 750 has a shelf life of 6 months when stored in the original unopened packaging in a dry place at 23° C and 50% relative humidity.

CLEAN UP
All equipment shall be thoroughly washed with clean water after mixing operations are completed.

TECHNICAL DATA

Mixing Ratio	4.5 – 5.0 Ltrs of water per 25kg bag
Application thickness	Refer to ARDEX-QUICSEAL for advice and approval on pour thicknesses with dimensions exceeding 50mm
Coverage	25kg of powder yields 14.5 - 15.2L of grout @ 19% water
Max Particle size	0.6mm

Characteristics	Test Method	Test Results
Compressive Strength 4 hours 1 day 7 days 28 days	EN 12190	 ≥ 35MPa ≥ 40MPa ≥ 50MPa ≥ 60MPa
Pot life	Visual	20mins @ 25°C
Fresh Wet Density	-	1950 - 2050 kg/m^3
Setting time	Initial	≥ 25mins
	Final	≤ 45mins

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 0.19.

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SAFETY PRECAUTIONS

ARDEX CE 750 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

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 user's 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 rise 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.

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