



ARDEX BR 480

Fibre Reinforced Structural Repair Mortar

Good workability

Suitable for trowelled or spray application

High bond strength

High strength mortar for both horizontal and vertical repair situation

Non-slump and high build properties – can build up to 60 mm thickness in one application

For internal and external applications



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

ARDEX BR 480

Fibre Reinforced Structural Repair Mortar

DESCRIPTION

ARDEX BR 480 is a single component ready to use polymer modified cementitious repair mortar for structural repair of concrete structures. It is a medium weight repair mortar and can be applied in both vertical and overhead applications with minimum difficulty.

USE

- Re-instatement of concrete affected by chloride attack or carbonation
- Re-profiling of concrete surfaces precast units, curbstones etc.
- Filling of honeycombs, blow holes, tie bar holes
- Repair of spalled, cracked (static cracks only) chipped concrete surfaces
- Re-surfacing walls prior to tiling

FEATURES & BENEFITS

- Pre-weight factory controlled product
- Shrinkage compensated
- High bond strength and compressive strength
- Suitable for both exterior and interior applications
- Non-slump and high build up to 60 mm can be achieved, depending on the geometry of the penetration

SUBSTRATE PREPARATION

The substrate must be dry, clean and sound, free of dust, loose particles, grease or any other contaminants.

Conventional curing compounds should be removed prior to the application of ARDEX BR 480. All shrinkage and non-moving structural cracks should be rooted out.

APPLICATION

New Construction:

Where ARDEX BR 480 is being applied for the re-profiling of concrete surfaces, filling of blow holes, honeycombs, etc. ensure that the surface is damp but free of standing water.

Due to its unique properties, ARDEX BR 480 can be feather edged.

Repair Work:

Saw cut the perimeter area of the repair area, ensuring all damaged concrete is removed cutting back to sound level. Ensure that corroded reinforcement is exposed, repair defective reinforcement where necessary. Remove all traces of rust by use of power tool; wire brushing, etc.

ANTI-CORROSION TREATMENT

All exposed reinforcement bars must be cleaned and treated with ARDEX anti-corrosion primer; ARDEX BRP 100/ARDEX BR 10 ZP saturate the area to be repaired.

PRIMING CONCRETE

To obtain better adhesion, prime the well prepared substrate with a slurry brush coat of ARDEX Abacrete mix with ARDEX BR 480 at the ratio 1:1 before ARDEX BR 480 repair mortar.

Re-priming is required if bonding slurry coat has dried up.

MIXING

Add 4.5 - 5 litres of clean water or ARDEX Abacrete (ratio 1:1) per 25 kg bag of ARDEX BR 480. Mix slowly and continuously whilst the powder is added. Mix for 2 - 3 minutes thoroughly until a smooth mortar is obtained.

PLACING

Apply the mixed ARDEX BR 480 mortar to the wet primer. The geometry of the repair will dictate the method of application. ARDEX BR 480 can be up to 60 mm thickness in one pass. However the normal application thickness is 10 mm to 40 mm.

CURING

ARDEX BR 480 repair mortar should be cured with good site work practice. Protect from direct sunlight and windy conditions. Best results can be obtained by using ARDEX curing agent.

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COVERAGE

One bag of 25 kg yield for approx. 13.5 - 15.5 litres of mortar.

TECHNICAL DATA

Wet density:	1.9–2.2 g/cm ³
Colour	grey
Mechanical properties:	
Compressive Strength:	
After 1 days	≥15 N/mm ²
After 7 days	≥40 N/mm ²
After 28 days	≥50 N/mm ²
Flexural Strength after 28 days:	≥7.0 N/mm ²
Tensile Adhesion Strength after 28 days with primer:	≥2.0 N/mm ²

PACKAGING

ARDEX BR 480 is packed in paper sacks incorporating a polyethylene liner – net weight 25 kg.

STORAGE

This product must be stored in unopened packaging, clear of the ground in cool dry conditions and be protected from excessive draught. If stored correctly, as detailed above, the shelf life of this product is 12 months from the date shown on the packaging.

SAFETY PRECAUTIONS

Wear suitable gloves, goggles and other protective clothing. The use of barrier creams can provide additional skin protection. When working in confined areas ensure adequate ventilations. In case of contact with skin, rinse with plenty of clean water then wash with soap and water. Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water, and then seek medical attention without delay. If swallowed, seek medical attention straightaway, do not induce vomiting. The application area or site must be in good ventilation otherwise advisable to use a portable exhaust fan.

For further material safety data, consult the latest

Safety Data Sheet which is available upon request and online at www.adex-quickseal.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.

Offices:

Malaysia:
ARDEX QUICKSEAL MALAYSIA SDN. BHD.
72-2, Jalan Puteri 2/2
Bandar Puteri, 47100 Puchong,
Selangor Darul Ehsan
Telephone: +603 8051 0311
Telefax: +603 8052 3223
Email: sales@ardex-quickseal.com

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

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

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