

Quickmast PC

Solvent-free high strength epoxy repair mortar



DESCRIPTION

Quickmast PC is a two-component, solvent-free, high strength, moisture tolerant patching compound formulated to give an easily applied paste.

Quickmast PC is thixotropic in nature and is suitable for vertical and overhead structural repairs.

Quickmast PC adheres well to concrete substrates without the need for a primer, as well as exhibiting very good abrasion and chemical resistance along with negligible shrinkage.

APPLICATIONS

Quickmast PC applications include:

- » Repairs of defective concrete and crack sealing.
- » Repairs of precast concrete elements.
- » Filling gaps and holes in concrete.

ADVANTAGES

- » High bond strength.
- » High early and ultimate strength.
- » Water impermeable.
- » Thixotropic in nature, easily applied on vertical and overhead surfaces.
- » Non-sag up to 30 mm thickness.
- » Can be used in damp or dry conditions.
- » Excellent workability.
- » Doesn't require a primer.
- » Exhibits good chemical resistance.
- » Non-shrink.
- » Good abrasion resistance.
- » Low VOC.

METHOD OF USE

SURFACE PREPARATION

Concrete, mortar, stone and bricks should be suitably prepared to remove any surface laitance. Ensure substrates are sound, clean, dry or slightly damp "no standing water", and free from oil, grease, laitance, ice, old surface treatments or coatings. Substrate should be suitably prepared to remove all loose particles to achieve a laitance and contaminant-free, open-textured surface.

Mortar and concrete should be at least 28 days old, depending on the minimum strength requirements. Verify the substrate strength for concrete, masonry, and natural stone.

TECHNICAL PROPERTIES @ 25°C:

Appearance:	Thick grey paste	
Mixed density:	1.65 ± 0.10 g/cm ³	
Volume solids:	100%	
Pot life:	55 min @ 25°C 35 min @ 35°C	
Application temperature:	25 to 45°C	
Compressive strength: BS 6319-2	@ 25°C	@ 35°C
	@ 1 day @ 7 days	≥ 35 MPa ≥ 55 MPa
Tensile strength: BS 6319-7	≥ 13 MPa @ 7 days	
Flexural strength: BS 6319-3	≥ 28 MPa @ 7 days	
Bond strength @ 7 days: ASTM C882		
Dry concrete (14 days moist curing)	> 5 MPa @ 25°C (concrete failure)	
Moist concrete (14 days normal curing)	> 5 MPa @ 25°C (concrete failure)	
Coefficient of thermal expansion:	9.8 x 10 ⁻⁵ per °C Temperature range 25°C to 100°C	
Application thickness:	Up to 30 mm	
Sag:	Non-sag up to 30 mm thickness on vertical and overhead surfaces	
VOC: ASTM D2369	< 20 g/ltr	

Steel surfaces should be grit blasted to remove all rust and scale to reach a bright finish meeting the requirement of Swedish Standard SA 2½.



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MIXING

Quickmast PC comprises two components, a resin base and a hardener, which are supplied preweighed in the correct proportions. Under no circumstances should part mixing be carried out.

To ensure proper mixing, a mechanically powered mixer or drill fitted with a suitable paddle should be used. Stir the content of each component separately to disperse any settlement.

Add the entire content of the hardener to the base and mix for 3 minutes and until a uniform colour and consistency are achieved. Avoid aeration while mixing. Mix only that quantity which can be used within its pot life.

APPLICATION

Where Quickmast PC is to be used for patch repairs, it should be applied to prepared surfaces and finished to the needed level, work the applied Quickmast PC well using a spatula or a trowel in order to ensure good contact and adhesion.

When applied as a repair mortar, formwork should be utilized. Under no circumstances should Quickmast PC come into contact with water before it has fully set.

WORKING CONDITIONS

Quickmast PC should not be applied at temperatures below 5°C. When exposed to temperatures over 35°C it will have a shorter pot and working life.

CLEANING

Clean uncured material with Quickmast solvent. Cured material can only be removed mechanically.

PACKAGING

Quickmast PC is available in 1 and 6 kg packs.

YIELD

6 kg pack (3.6 litre).

STORAGE

Protect from frost and store under dry warehouse conditions at temperatures between 15°C and 30°C.

SHELF LIFE

Quickmast PC has a shelf life of 12 months from date of manufacture if stored in unopened, undamaged, sealed containers and stored under good conditions.

If these conditions are exceeded, contact DCP Technical Department for advice.

CAUTIONS

HEALTH AND SAFETY

Consult the appropriate Material Safety Data Sheet prior to using Quickmast PC.

MORE FROM DON CONSTRUCTION PRODUCTS

A wide range of construction chemical products are manufactured by DCP which include:

- » Concrete admixtures.
- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
- » Flooring systems.
- » Protective coatings.
- » Sealants.
- » Waterproofing.
- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.

Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.