

MasterCrete CAC 620 (formerly MasterEmaco S 620)

Cementitious hand applied repair mortar for aggressive environments

Material Description

MasterCrete CAC 620 is a ready-to-use, high Alumina cement based mortar. It is specially designed for sewer repair applications or where acid and/or abrasion resistance is required using hand applied systems.

Areas of Application

- Repairs to brick, cast in place concrete and precast concrete sewers.
- Reinstating of linings of manholes and other access ways.
- Tunnel linings or other places where resistance to acidic waters is required.

Characteristics and Benefits

- High Alumina clinker and cement – all ingredients reactive and form an acid resistant matrix
- Easy to use – requires only the addition of potable water for mixing for hand application or wet mix spray
- Self-healing – long term reactivity of matrix heals surface cracks increasing life of repair.
- Good working time – over one hour at 21°C
- Controlled shrinkage – reduced cracking tendency

Properties

Age	Compressive Strength MPa	Flexural Strength MPa
1 day	~28.0	~4.0
28 days	~45.0	~6.0
Bonding Strength (substrate failure)		>1.5Mpa
Coefficient of Thermal Expansion		$8.5 \times 10^{-6}/^{\circ}\text{C}$
Taber abrasion CS17 wheel		58g

** All performance data is determined by testing of actual, in-place shotcreted specimens such as cores and beams taken from test panels. Reasonable variations from the data shown can be expected, depending on the care taken in evaluating test specimens, and jobsite conditions such as the quality of substrate preparation, level of expertise of the nozzle man, curing procedures and weather.*

Application

Prepare the surface to be repaired by removing all unsound concrete, dirt, dust and debris. A surface profile on old concrete should be CSP 5 or greater. For brick lined sewers ensure that all loose mortar in the joints has been removed and that the face of the bricks is clean.

Mix **MasterCrete CAC 620** with approximately 2.8-3.2 litres of water per 20kg bag.

MasterCrete CAC 620 can be applied in depths ranging from 10 - 50mm in one application.

Can be applied as a wet spray for larger areas talk to your Master Builders Solutions Technical Sales Representative for advice on suitable machines.

Curing

Proper curing is extremely important however given the environment (moist and humid) that this product is placed in the use of curing compounds or other forms of curing are not necessary.

Estimating Data

One 20kg bag of **MasterCrete CAC 620** mixed with 2.8-3.2L of water yields approximately 11 litres (0.011 m³).

MasterCrete CAC 620				
L	Thickness in mm /m ²	m ³	bags /m ³	m ² /mm thickness
11	11mm	(0.011)	91	11 m ²

Packaging

MasterCrete CAC 620 is available in 20kg bags.

Storage & Shelf Life

MasterCrete CAC 620 has a shelf life of 6 months. Store out of direct sunlight, clear of the ground on pallets protected from rainfall.

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Precautions

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.

Disclaimer

MasterCrete-CAC 620-ANZ-V1-I124

STATEMENT OF RESPONSIBILITY

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NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by MB Solutions Australia Pty Ltd either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not MB Solutions Australia Pty Ltd, are responsible for carrying out procedures appropriate to a specific application.

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