

# MasterEmaco<sup>®</sup> S 620

Cementitious hand applied repair mortar for aggressive environments

## DESCRIPTION

**MasterEmaco S 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.

## RECOMMENDED USES

- 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.

## FEATURES 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 X 10 <sup>-6</sup> /°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 DIRECTIONS

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 **MasterEmaco S 620** with approximately 2.8-3.2 litres of water per 20kg bag.

**MasterEmaco S 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 BASF 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 **MasterEmaco S 620** mixed with 2.8-3.2L of water yields approximately 11 litres (0.011m<sup>3</sup>).

MasterEmaco S 620				
L	Thickness in mm /m <sup>2</sup>	m <sup>3</sup>	bags /m <sup>3</sup>	m <sup>2</sup> /mm thickness
11	11mm	(0.011)	91	11 m <sup>2</sup>

## PACKAGING

**MasterEmaco S 620** is available in 20kg bags

## SHELF LIFE

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



We create chemistry

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## PRECAUTIONS

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

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### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

### NOTE

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

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