

# MasterCrete 5140 (formerly MasterEmaco N 5100)

Cementitious polymer modified thin layer fairing mortar

## **Material Description**

MasterCrete 5140 is a concrete-grey, ready-to-use mortar based on hydraulic binders, high grade quartz sands and modified with synthetic polymers. It contains no chlorides or other salts that might cause corrosion or blooming.

## **Areas of Application**

MasterCrete 5140 is especially suitable for levelling uneven surfaces, filling honeycombs and pin holes. It can be used as a topping (render) of up to 3mm thick to face up masonry.

MasterCrete 5140 is ideal for thin resurfacing of damaged concrete surfaces, such as in rain damaged slabs and for use in non-moving crack repairs.

### **Characteristics and Benefits**

- Multi-purpose allows thin layer patching and feather edging
- Strong adhesion bonds permanently to existing concrete
- Thixotropic material quick and easy to apply by trowel vertically and overhead
- Durable weatherproof and shrinkage compensated
- Fast return to service high early strength and excellent bonding

## **Properties**

40 MPa		
7.0 MPa		
12.0 GPa		
> 2.5 MPa		
expansion 13 x 10 <sup>-6</sup>		
m/m/°C		
Powder		
Powder		
Powder up to 3.5 litres		
Powder up to 3.5 litres Grey		

Working time at 20°C	20°C 50 minutes	
At 30°C	25 minutes	
AS 4020 water potability	Passed	
VOC Content: 7g/L		
Test method: SCAOMD: 304-91		

## **Application**

### **Surface Preparation**

Surfaces to which MasterCrete 5140 mixtures are to be applied, should be clean, sound and free of dust and loose particles.

Cement laitance, oil, grease, mould release oil or curing compound must be removed from concrete surfaces by using wire brush, bush hammer, scabbler, gritblasting or other means. Spalled or deteriorated concrete should be repaired with a suitable MasterCretemortar such as MasterCrete CI 5200 or 5300 prior to the application of MasterCrete 5140. All absorbent surfaces to be treated with MasterCrete 5140 mortars must be thoroughly dampened to saturate all pores. During application, the temperature of the substrate should not

To avoid too high surface temperatures it is advised to shade areas for the period of application.

## **Mixing**

be below 7°C.

Pour water approximately 3.5 litres of water into a suitable pail and add MasterCrete 5140 powder whilst mixing continuously until a homogeneous, lump-free mix is obtained. Adjust water to give a suitable consistency dependent on ambient temperature and relative humidity. In hot and dry climates, slightly higher amounts of water may be necessary, the contrary in cold and humid climates.

Use a low speed stirrer (300-600) with an upward mixing helical mixing paddle to entrap as little air as possible.

Do not mix MasterCrete 5140 with additional cement, sand or aggregate.

Priming is not required.



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#### **Method of Use**

Apply the well-mixed MasterCrete 5140 without delay to the prepared damp surface with a spatula or trowel; thin layers may be applied with a brush. A minimum temperature of 7°C is essential. Layers up to a maximum of 3mm per coating can be applied.

Depending on the finish desired, treat the surface of MasterCrete 5140 after it starts to set with a foam or sponge trowel.

# **Estimating Data**

A 20kg bag of MasterCrete 5140 mixed with 3-3.5 litres of water yields II litres  $(0.01\,\text{Im}^3)$ , therefore material requirement is  $5.5\text{kg/m}^2$  @ 3mm thickness.

MasterCrete 5140					
L	Thickness	m <sup>3</sup>	bags	m²/mm	
	in mm /m²		/m <sup>3</sup>	thickness	
11	Hmm	(0.011)	91	II m <sup>2</sup>	

# **Packaging**

MasterCrete 5140 is available in 20kg bags.

## Storage & Shelf Life

MasterCrete 5140 has a shelf life of 12 months. Store inside out of direct sunlight, clear of the ground on pallets.

## **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-5140-ANZ-VI-1124

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