

# MasterTop 135 PG

## PUMPABLE & POURABLE MORTAR FOR FLOORING OVERLAY.

### DESCRIPTION

MasterTop 135 PG is a ready-to-use, pumpable, pourable, screedable and high-strength cement based overlay for floors in indoor and outdoor.

MasterTop 135 PG is suitable for levelling rough and uneven concrete floors in a thickness layer from 5 - 15 mm. MasterTop 135 PG is formulated with Portland cement, reinforced with PAN (polyacrylonitrile) fibers and mineral aggregates. **MasterTop 135 PG has a low chromate content (Cr-VI) < 2 ppm on cement weight.**

### CHARACTERISTICS

MasterTop 135 PG is:

- An economical, ready-to-use cement based flooring overlay, that hardens free of bleeding at following consistency: from flowable to high plastic.
- A mortar that retains good workability for at least 30 minutes at 15 to 25°C.
- Resistant to alkaline surroundings
- A ready-to-use product, water is added on site.
- The use of a high-yield mortar pump (screw pump) allows the prepared product to be pumped without segregation.
- Can simply be poured out and distributed.
- The mortar will cure without blistering.

### FIELD OF APPLICATION

MasterTop 135 PG is recommended for:

- Use on rough concrete and cementitious floor screeds, as well as other suitable substrates.
- Industrial floors with normal loading.
- Where a mortar with high final strength similar in colour to concrete is desired.
- Reprofiting of horizontal surfaces as industrial inside and outside floors, etc.

### REMARKS

Strength development MasterTop 135 PG








The strength of the overlay depends on:

- the amount of mixing water
- the temperature of the substrate
- the curing cycle
- the age of the hardened mortar
- the ambient temperature and humidity.
- The temperature of material, water and the ambient temperature should be in the range of +5°C to +25°C.

- Do not use water in an amount or at a temperature that will produce a consistency more than flowable or cause mixed mortar to bleed or segregate.
- Do not apply over concrete containing calcium chloride or aggregate contaminated with salt or salt water.
- Do not apply over concrete containing more than 3% entrained air.

### APPLICATION PROCEDURE

Application on existing concrete

- 
 Apply bonding slurry
- 
 Mixing of the product
- 
 Placement (pouring / pumping) of the material (wet in wet with the bonding slurry) and leveling (see note)
- 
 Floating of MasterTop 135 PG followed by a first trowelling and a second/final trowelling/polishing
- 
 Curing
- 
 Sawing joints
- 
 Application of joint sealant

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### Application on fresh concrete



Steps 2 up to 7 are the same as described under "Application on existing concrete".

### Note:

Apply by means of a hard brush bonding slurry of MasterTop 135 PG directly onto the substrate. The substrate should be damp but free of standing water. Brush the bonding slurry well into the surface. Do not allow the bonding slurry to dry.

Alternatively bonding slurry of MasterTop 500 may be applied. Consult your Master Builders Solutions -CC representative.

**For detailed information on the application steps please consult the application manual.**

### **CONSUMPTION**

25 kg MasterTop 135 PG, mixed with 3 (3,0 – 3,5) liters of water produces approximately 12,5 liters mortar (0,0125 m<sup>3</sup>).

### **QUALITY AND CARE**

All products originating from Master Builders Solutions's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 standards.

\* Properties listed are based on laboratory controlled tests.

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### **PACKAGING, STORAGE AND SHELF LIFE**

MasterTop 135 PG is packaged in 25 kg moisture-resistant bags and big bags. Do not use the product if bag is damaged.

Kept dry, cool and frost-free, MasterTop 135 PG can be stored for 12 months in the tightly closed original packages.

### **SAFETY AND PRECAUTIONS**

As with other products containing Portland cement, the cementitious material in MasterTop 135 PG may cause irritation. Avoid contact with eyes and prolonged contact with skin. In case of contact with eyes, immediately flush with plenty of water for at least 15 minutes. Call a physician. In case of contact with skin, wash skin thoroughly. Keep product out of reach of children.

Consult the Material Safety Data Sheet for further information regarding this product.

### **FIELD SERVICE**

Master Builders Solutions -CC recommend that the user/applicator requests the services of the local representative for a prejob conference to carefully plan each step of the installation.

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## TECHNICAL PROPERTIES OF MasterTop 135 PG

Technical properties		
Physical form		ready to use powder
Color		cementgrey, colors see color-chart
pH		> 12
Granulometric grading		0 – 3,15 mm
Chemical resistance		medium to low
Curing		necessary
Filling joint		necessary
Water content/25 kg		3 liters
Compressive strength (28 days)	EN 13982-2	≥ 60 MPa
Flexural strengths (28 days)	EN 13982-2	≥ 10 MPa
E-modulus (28 days)	EN 13412	30 kN/mm <sup>2</sup>
Adhesion to concrete	EN 13892-8 class > B 2,0	2,5 N/mm <sup>2</sup> (concrete failure)
Abrasion resistance BCA	EN 13892-4	AR2 (max. 200 µm wear depth)
Abrasion resistance BOHME	EN 13892-3:2004	A6 (max. 6 cm <sup>3</sup> / 50 cm <sup>2</sup> )
Abrasion resistance AMSLER	NBN-15-223	2,88 mm / 3.000 m
Resistance to Fire		A1 <sup>#</sup>
Release of corrosive substances		CT (cementitious screeds)
Impact resistance (IR)	EN ISO 6272-1 (EN 1504-2) On concrete block MC 0,40 acc. EN 1766	Class II

Note: The data shown are based on controlled laboratory tests with 3 l water/25 kg. Reasonable variations from the results shown can be expected. Field and laboratory tests should be controlled on the basis of the desired placing consistency rather than strictly on the water content.



Whilst all reasonable care is taken in compiling technical data on the company's products, all recommendations regarding the use of such products are made without guarantee, since the conditions of use are beyond the control of the company. It is the customer's responsibility to satisfy himself that each product is fit for the purpose of which he intends to use it and that the conditions of use are suitable

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### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions 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 Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

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