PLANITOP 220 ME

Two-component, polymer-modified fairing coat for smoothing concrete surfaces.



WHERE TO USE

Protection, smoothing, and levelling of concrete surface imperfections and blow hole filler and reprofiling mortar. It can be applied in thickness up to 10 mm in multiple layers.

Some application examples

· Smoothing surface imperfections and blemishes in concrete before coating.
· Filling of blow holes and surface imperfections in pre-cast units.
· Filling minor honeycombs up to a maximum of 3 mm depth.
· Smoothing irregular surfaces of cement-based renders that have good mechanical strength.

TECHNICAL CHARACTERISTICS

Planitop 220 ME, two-component skim coat based on cementitious binders, fine-graded selected aggregates, special additives, and synthetic polymers manufactured according to a formula developed in the MAPEI Research Laboratories. When the two components are mixed together, **Planitop 220 ME** forms a paste that is easy to apply on vertical surfaces. As a result of its formulation **Planitop 220 ME** bonds extremely well to all concrete surfaces and forms a compact, strongly adhered dust-free layer when cured.

RECOMMENDATIONS

· Do not use **Planitop 220 ME** at temperatures lower than +5°C.
· Do not add cement or aggregates to **Planitop 220 ME**.
· For the protection of hydraulic projects and surfaces subject to abrasion, use **Mapefinish**.

APPLICATION PROCEDURE

Preparation of the substrate

The surface which is to be re-profiled must be thoroughly clean and sound. Remove dust, loose particles, and any traces of form-release agents using high-pressure water jetting. Remove any excess surface water using oil-free compressed air or a sponge if needed.

Preparation of the mortar

Pour component B (liquid) into a suitable clean container, then slowly add component A (powder) while stirring with a mechanical mixer. Use a slow-speed heavy-duty drill with an appropriate mixing attachment and mix at a low speed between 300 rpm and 500 rpm. Mix for 1 to 2 minutes, then check to make sure the mix is well blended, scraping any unmixed powder from the bottom and the sides of the mixing vessel. Allow the paste to settle then mix again for another 1 to 2 minutes. Keep stirring until a perfectly homogenous mix is obtained. Avoid mixing manually as this may adversely affect several of the mortar's characteristics, including mechanical strength, shrinkage, impermeability, etc.

Application of the mortar

Apply the mortar to the surface with a trowel to a maximum thickness of 0.5-2 mm per layer. Smoothing **Planitop 220 ME** can be done with a flat trowel or wet sponge float.

Cleaning

Mortar that has not yet hardened can be removed from tools with water. After setting, cleaning is very difficult and can only be done mechanically.

CONSUMPTION

Depending on the surface substrate conditions. The average consumption is approx. 1.6 kg/m² per mm of thickness.

YIELD

14.21 liters/22.75 kg.

PACKAGING

Units of 22.75 kg: component A: 17.5 kg bags; component B: 5.25 kg drums.

STORAGE

When stored in dry conditions in the original un-opened bags **Planitop 220 ME** component A has a shelf life of 12 months. If stored at a high temperature and or high humidity conditions, the shelf life may be reduced. **Planitop 220 ME** component B when kept in the original un-opened packaging may be stored for up to 24 months. Protect from frost.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instruction for the safe use of our products can be found on the latest version of the Safety Data Sheet available from our website www.mapei.ae

TECHNICAL DATA (typical values)		
PRODUCT IDENTIFICATION		
	Component A	**Component B**
Consistency:	powder	liquid
Colour:	grey	white
Maximum size of aggregate (mm):	0.1	
Density (kg/m³):	1200	
Dry solids content (%):	100	
APPLICATION DATA (at +20°C - 50% R.H.)		
Colour of mix:	grey	
Mixing ratio:	component A : component B = 1 : 0.3	
Consistency of mix:	thixotropic - trowellable	
Density of mix (kg/m³):	1600	
Application temperature range:	from +5°C to +40°C	
Pot life of mix:	approx. 1 hour	
Surface drying time:	approx. 30 minutes	
Waiting time before applying coatings:	3 days on surfaces smoothed over using **Planitop 220 ME**; 7 days on surfaces repaired with mortar from the **Mapegrout** range followed by a finishing layer with **Planitop 220 ME**	

FINAL PERFORMANCES (30% mixing water)		
Performance characteristic	**Test method**	**Performance of product**
Compressive strength (MPa):	**EN 12190**	> 9 (after 7 days) > 18 (after 28 days)
Flexural strength (MPa):	**EN 196/1**	> 3.0 (after 7 days) > 4.0 (after 28 days)
Bond to concrete (MC 0.40-type concrete) according to EN 1766 (MPa):	**EN 1542**	≥ 0.80 (after 28 days)

IMPORTANT NOTES

Whilst we try to ensure that any advice, recommendations, or information given in our literature is accurate and correct, we have no control over the circumstances in which our product is used. It is therefore important that installers satisfy themselves that the product and conditions are suitable for the envisaged application. No warranty can be given or responsibility accepted other than, that the product supplied by us will meet our written specifications. The installer should ensure that our latest product data and safety information sheets have been consulted prior to use.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into other project-related documents, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation. The most up-to-date TDS can be downloaded from our website www.mapei.com.

ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

All relevant references for the product are available upon request and from www.mapei.com

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