

Dr.Satin 110

Single Component, Normal Setting Cementitious Mortar for Smoothing Concrete Surfaces



Description

Dr.Satin 110 is a powdered, single-component cement-based mortar with selected fine aggregates, special additives and synthetic polymers for smoothing concrete surfaces.

Applications

- Use as a concrete/ mortar pore sealer or levelling and smoothing mortar
- Thin layer render over vertical or horizontal structural elements
- Repairing of minor defects (pores and honey-combed concrete) up to 3mm
- Restoration of edges and joints
- Filling of blow holes and surface imperfections in pre-cast units

Application Procedure

Surface Preparation

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 in to a rust-free mixing vessel 6 liters of water needed to obtain the paste consistency required for the application. 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. Avoid mixing manually as this may adversely affect several of the mortar's characteristics, including mechanical strength, shrinkage, impermeability etc.

Application of the Mix

Apply the mortar to the surface with a trowel to a maximum thickness of 1 to 2 mm per layer.

Smoothing **Dr.Satin 110** can be done with a flat trowel or wet sponge float.

Consumption

Dependent upon the surface substrate conditions. However, as a guide approx. 1.2 kg/m² per mm of thickness.

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

Yield

15.3 liters/20 kg.

Recommendations:

- Do not use **Dr.Satin 110** for single applications greater than 2 mm in one layer in large areas. from.
- Do not add cement or aggregate to **Dr.Satin 110**

Storage and Handling

When stored in dry conditions in the original unopened bags **Dr.Satin 110** has a shelf life of 12 months. If stored at high temperature and or high humidity conditions, the shelf life may be reduced.

Packaging

20 Kg Bag

Health and Safety

Dr.Satin 110 contains cement that when in contact with sweat or other body fluids causes irritant alkaline reaction and allergic reactions to those predisposed. It may cause damage to eyes. In case of contact with eyes or skin wash immediately with plenty of water and seek medical attention. During use wear protective gloves and goggles and take usual precautions for the handling of chemicals.



Technical Data

PRODUCT IDENTITY		
Class according to EN 1504-3:	R2	
Type:	PCC	
Consistency:	Powder	
Color:	Grey	
Maximum size of aggregate (mm):	0.1	
Bulk density (kg/m ³):	1200	
Dry solids content (%):	100	
Chloride ions content: – minimum requirement ≤ 0.05% - according to EN 1015-17 (%):	≤ 0.05	
APPLICATION DATA OF PRODUCT (at +20°C - 50% R.H.)		
Colour of mix:	Grey	
Mixing Ratio:	100 parts of DR.SATIN 110 30 parts of water (approx. 6 liters of water per 20 kg bag)	
Consistency of mix:	thixotropic - trowellable	
Density of mix (kg/m ³):	1700	
pH of mix:	> 12.5	
Application temperature range:	from +5°C to +35°C	
Pot life of mix:	approximately 1 hour	
Waiting time between each layer:	approx. 30 minutes	
Waiting time before applying coatings:	3 days on surfaces smoothed over using Dr.Satin 110 7 days on surfaces repaired with mortar from the DR.GROUT range followed by a finishing layer with Dr.Satin 110	
FINAL PERFORMANCE (17% mixing water - mixing and compaction according to EN 196-1)		
Performance characteristic	Test method	Performance of product
Compressive strength (MPa):	EN 12190	>13 (after 1 day) >18 (after 28 days)
Flexural strength (MPa):	EN 196/1	>3 (after 1 day) >4 (after 28 days)
Bond strength on concrete (according to EN 1766 (MPa):	EN 1542	≥ 0.6 (after 28 days)
Reaction to fire:	Euroclass according to class declared by manufacturer	E

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