MasterSeal P 770

Xolutec technology primer, non solvent based, class A3 crack bridging, with high chemical resistance for reinforced concrete, component of the MasterSeal CR 7000.

MATERIAL DESCRIPTION

MasterSeal P 770 is a two-component primer based on Xolutec - Technology, providing high substrate penetration and acting as bond promoter for the subsequent MasterSeal systems, e.g. MasterSeal 7000 CR.

FIELDS OF APPLICATION

MasterSeal P 770 is used as primer on mineral substrates for MasterSeal systems. It will improve the adhesion and prevent the appearance of pinholes or bubbles in the subsequent hardened coating.

FEATURES AND BENEFITS

MasterSeal P 770 is characterized by:

- Low viscosity
- Easy to apply
- Excellent penetration
- Seals pores and capillaries
- Moisture tolerant: can be applied on substrates with high residual humidity.
- Excellent bond to substrate
- Does not contain solvents

In compliance with the European Regulation (EU No 305/2011 and EU No. 574/2014) the product is provided with the CE marking according to UNI EN 13813 and to UNI EN 1504/2 and the relative DoP (Declaration of Performance).

CE
1305
UNI EN 13813
Screed materials: properties and requirements

PACKAGING

MasterSeal P 770 is available in 5 kg Kits consisting of 2.2 kg Part A and 2.8 kg Part B as well as 9 kg Kits consisting of 4 kg Part A and 5 kg Part B.

STORAGE

MasterSeal P 770 should be stored in original containers under dry conditions at temperatures between 10 – 25°C preferably. Protect from frost and no permanent storage over +30°C. Shelf life under these conditions is 12 months for both parts.

Technical information	
Density EN ISO 2811-1	Part A 1.25 g/m^3 Part B 1.17 g/m^3 Mixed 1.12 g/m^3
Viscosity EN ISO 3219	Part A 1140 MPas Part B 125 MPas Mixed 650 MPas
Workability	20 minutes at 20°C
Glass transition temperature after 28 days	109°C
Pot life	At 5°C 30 minutes At 10°C 25 minutes At 20°C 20 minutes At 30°C 10 minutes
Dry to touch at 20°C	5 hours
Maximum substrate moisture (during application)	not restricted, but surface must be visibly dry
Maximum relative humidity (during application)	not restricted, but no condensation of water on the surface
Application temperature	5°C-35°C
Ready for pedestrian traffic / Re-coating interval	At 10°C 11 hours At 20°C 5 hours At 30°C 2 hours
Fully cured	At 10°C 7 days At 20°C 5 days At 30°C 2 days
Adhesion to concrete after 7d	>4 MPa
Water vapour permeability S_D	Class III (impermeable) 76 (coverage 200 g/m2) 108 (coverage 400g/m2)
Mixing ratio	44% A: 56%B
Adhesion in combination with subsequent layers of [MPa]	- MasterSeal M 790 >2.5 - MasterSeal M 310 >3.0 - MasterSeal M 336 >2.5 - MasterSeal M 391 >3.0 - MasterSeal M 689 >2.5 - MasterSeal M 808 >2.5 - MasterSeal M 811 >3.0
Theroretical consumption	0.25-0.30 kg/m^2

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APPLICATION SHEET

PREPARATION OF THE SUBSTRATE

All substrates (new and old) must be structurally sound, dry, free of laitance and loose particles and clean of oil, grease, rubber skid marks, paint stains and other adhesion impairing contaminants.
Concrete: The surface should be prepared by shot blasting, high-pressure water jetting or other suitable mechanical method. After preparation, concrete and other cementitious substrates must have a minimum pull off strength of 1.5 N/mm² (lowest single value 1.0 N/mm²).
Very rough / irregular substrates on walls should be levelled before application with a suitable fairing coat, e.g. MasterEmaco N 5100 FC. On floors a suitable repair or levelling solution should be used. It is essential to have all pores closed in mineral substrates before priming.
Wall/Floor connections must be rounded by using suitable products e.g. MasterSeal 590, MasterSeal P 385 Part D or MasterEmaco S 5440 RS.
The substrate should be visibly dry - there is no limit to residual humidity. Substrate temperature must be minimum +5ºC and maximum +35ºC. The temperature of the contact surfaces must be at least 3°C above the ambient dew point temperature.

MIXING

MasterSeal P 770 is supplied in working kits which are pre-packaged in the exact mixing ratio.
Pour the entire content of Part A into the container of Part B and mix with a mechanical drill and paddle at low speed (max. 400 rpm) for 90 seconds. Scrape the sides and the bottom of the container several times to ensure complete mixing. Keep the mixer blades submerged in the coating to avoid introducing air bubbles.
Do not mix part packs and do not mix by hand!
Attention: unused remains of mixed material can lead to a strong heat development in the pail. Always use up all mixed material completely.

APPLICATION

After mixing, MasterSeal P 770 is applied to the prepared substrate by brush or roller. The curing time of the material is influenced by the ambient, material and substrate temperatures.
At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, open time and curing times. High temperatures speed up the chemical reactions thus the pot life, open time and curing times are shortened accordingly. To fully cure, the material, substrate and application temperature should not fall below the minimum. The temperature of the contact surfaces must be at least 3°C above the ambient dew point temperature.
MasterSeal P 770 dries as an intense transparent film (within 5 hours @ 20°C). In case there are holes not covered by the primer, please apply a second coat of primer. Wait for at least 5 hours (@ 20°C) before applying MasterSeal systems.
We recommend overcoating the primer within the next 48 hours of its application. If this time is exceeded, please contact your Master Builders Solutions Technical representative.

WATCH POINTS

- Do not apply at temperatures below +5ºC nor above + 35°C
- Eventual separation of Part A can occur – this is no product failure and the material can be easily re-homogenized by mixing.
- Do not add any solvents or other components to MasterSeal P 770 mixes.
- Attention: unused remains of mixed material can lead to a strong heat development in the pail. Use up all material completely!

FINISHING AND CLEANING

Tools can be cleaned with solvent-based cleaner while still wet. Once cured, the material can only be removed mechanically.

WARNINGS

MasterSeal products are for professional use. For further information, consult the Master Builders Solutions Italia Spa area technician.

SAFETY INSTRUCTION

For information on the correct and safe use, transport, storage and disposal of the product, consult the most recent Safety Data Sheet.

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OTHER SERVICES

For price analysis, specifications, supplementary brochures, references, reports and technical assistance, visit the website www.master-builders-solutions.com/it-it or contact infomac@mbcc-group.com.

Scan the QR code to visit the product page and download the latest version of this datasheet.

Since 16/12/1992, Master Builders Solutions Italia Spa has been operating under a Certified Quality System compliant with the UNI EN ISO 9001 Standard. Furthermore, the Environmental Management System is certified according to the UNI EN ISO 14001 Standard and the Safety Management System is certified according to the UNI ISO 45001 Standard.

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