

MORCEM® DRY SF PLUS

DESCRIPTION

Two component flexible cementitious, crack bridging, waterproofing coating, applied by trowel or roller for waterproofing swimming pools, bathrooms, balconies, and terraces.

TECHNICAL CHARACTERISTICS

Two-component waterproofing coating based on hydraulic binders, gradded aggregated, additives and acrilic emulsion polymer.

ADVANTAGES AND USES

- Flexible coating.
- Resistant against positive and negative hydrostatic pressure.
- Waterproofing of swimming pools.
- Waterproofing of concrete roof slabs, floors, balcony floor slabs, bathrooms.
- Waterproofing of shallow basement retaining walls.
- Waterproofing of pile heads.
- Non-toxic with low VOC content.
- Suitable for potable water tanks.

SUITABLE SUBSTRATES

- Concrete, screeds and other cement-based substrates should be properly cured before application.
- Concrete and screed should be at least 28 days old.
- The substrate must be sound, clean, free of greases, oils, dust, laitance and any bad adhered pieces. Use sandblasting or high-pressure water jet where needed.
- Dampen absorbent surfaces with water before application, avoiding waterlogging.
- Repair cracks and damaged concrete with Morcemseal Todo 1, before application.
- Joints and cracks should be reinforced using fibreglass mesh incorporated into the first coat of the membrane.
- It is recommended to use reinforcement fibre mesh at all intersections (critical areas) of corner joints, floor / walls junctions, gaps, peripherial areas of pipelines before the application of waterproofing membrane to ensure better waterproofing.

APPLICATION PROCEDURE

- MORCEM® DRY SF PLUS is provided in two component units made up of a 10 kg liquid component and 25 kg cementitious powder component. The entire contents of the liquid component will be decanted into a suitably sized mixing vessel and the entire contents of the powder component added slowly with mixing with a slow speed electric mixer for 2-3 minutes until a homogenous mix is obtained.
- The mixed slurry will be allowed to stand for 5-10 minutes prior to use to allow entrained air to escape and for all the polymer components to be fully activated.

Application:

- Dampen absorbent surfaces without leaving excess water.
- Apply MORCEM® DRY SF PLUS over the entire area in a saturated surface dry condition.
- While this first coat of MORCEM® DRY SF PLUS is still wet cover all angle fillets with 150 mm wide reinforcing strip of open woven glass fibre mesh of 2 mm X 2 mm immediately over the coating and allow it to soak completely.

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- Cover it with one additional coat of MORCEM® DRY SF PLUS over the angle fillets and allow it to dry completely.
- Apply 2nd coat of MORCEM® DRY SF PLUS after the first coat dries completely. Also cover the angle fillets during the second coat application. Allow it to dry completely for 6-8 hrs.
- Reinforcing fabric must be fully covered and must not protrude through the surface. The total applied thickness of MORCEM® DRY SF PLUS, including reinforcing fabric should be 2 – 2.5 mm.

Test the area with water ponding after 7 days of complete curing for 48 hours to ensure there is no leak. Drain the water.

RECOMMENDATIONS

- Application temperature range : from 5ºC to 35ºC.
- Protect the product from frost, rain, strong winds direct sunlight, during and immediately after application.
- Minimum thickness must be 2 mm.
- Expansion joints must be respected wherever present, and should be treated by folding BANDTEC band into the joint ,and sandwich the band on the surface between 2 layers of Morcem Dry SF PLUS.
- The surface of balconies and terraces should always be reinforced by sandwiching MESHDRY POOL between the 2 layers of Morecem Dry SF PLUS.
- It is recommended to use reinforcement fibre mesh at all intersections (critical areas) of corner joints, floor / walls junctions, gaps, peripherial areas of pipelines before the application of waterproofing membrane to ensure better waterproofing.
- Wherever BANDTEC or reinforcement fibre mesh is used, it should be placed using overlaps with a minimum width of 5 cm and as carefully as possible avoiding pockets or folds.
- Please consult technical data sheet of BANDTEC before applying.
- When installing mosaic, it is recommended to treat the junctions between wall-wall, wall-screed, wall-ceiling by applying MORCEMSEAL TODO 1 in the form of a 5 x 5 cm half round.
- Consult the Technical Department for any application not specified in this Technical Data Sheet.
- For all information regarding safety in handling, transport, storage and use of the product check the updated version of the Product Safety Data Sheet.
- Do not add cement, sand nor any other substances that may affect the properties of the material.
- Store unmixed materials in a cool (preferably temperature controlled) environment, avoiding exposure to direct sunlight.
- Try to avoid application during the hottest times of the day, arrange temporary shading as necessary.
- Application should not be undertaken if the prevailing relative humidity (RH) exceeds 90%.
- Do not exceed 2 mm wet film thickness per application layer.
- Crazing may occur if the maximum recommended thickness is exceeded.

PACKAGING AND STORAGE

25 Kg powder + 10 Kg latex
Storage up to 1 year in original container closed, sheltered from the weather and humidity.

TECHNICAL DATA

(Statistical results in standard conditions)

Properties	Specification	Results
Toxicity	VS 6920 : Part I; 2000	Non-toxic
Hydrostatic (positive) water pressure resistance.	DIN 1048	5 bar
Hydrostatic (negative) water pressure resistance.	DIN 1048	3 bar
Tensile strength	ASTM D412	> 1 N/mm^2
Elongation	ASTM D412-16 Method A	40%

LEGAL DISCLAIMER

The information and instructions in this datasheet are based on our current tests and technical knowledge. They are intended as general guidance and do not constitute a binding commitment by PIDILITEPUMA MEA CHEMICALS LLC. It is the sole responsibility of the user to verify, prior to use, that the product is suitable for the intended application and to ensure that it is applied correctly and in accordance with applicable regulations and good industry practice.

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PIDILITEPUMA MEA CHEMICALS LLC cannot control how its products are applied on site throughout the entire project and therefore cannot accept responsibility for their application by contractors or other parties involved in the execution of the work. Support visits to the jobsite by our technical staff do not change that. Our responsibility is limited exclusively to defects that can be directly attributed to the supplied products, whether used individually or as part of a system, caused by manufacturing defects.

It is the responsibility of the project designer, site manager, contractor, or other relevant professionals to ensure that the selected products are appropriate for the specific project, taking into account their properties, the substrate, site conditions, and any existing issues.

In the event of a claim, the original packaging must be provided to ensure proper product traceability.

Any performance values stated for PIDILITEPUMA MEA CHEMICALS LLC products or construction solutions, whether in UNE standards or other applicable standards, are based solely on the specific test conditions defined in those standards (such as substrate type, temperature, and humidity). These values may not apply to situations where products are tested or used under different conditions.

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