



BE SURE. BUILD SURE.

MC-Proof 501 Flex (formerly known as Dictament WPS-50)

Flexible cementitious waterproofing coating

Product Properties

- Two-component flexible cementitious polymer reinforced by coating
- Dries to form a membrane which is permeable to vapour but works as a barrier to water and moisture
- Slurry or trowellable consistency
- Flexible
- Bridges hair line cracks and stays fully bonded
- Good adhesion to concrete
- Pre-batched components
- Water based and non-toxic
- STANDARD: SIRIM ECO 019: 2019

Area of Application

- Applicable to concrete or other cementitious substrate
- Basement walls
- Bathrooms
- Toilets
- Balconies
- Kitchens
- Backing slurry to natural stones

Approval / Standard

- SIRIM certified - Test method: Adopted to BS EN 1928:2000 – Flexible sheets for waterproofing – bitumen, plastics and rubber sheets for roof waterproofing. Determination of water tightness

Application

Substrate Preparation

Substrate surface shall be cleaned by high pressure air or water jet to remove all laitance and unsound materials.

If substrate surface is dry, thoroughly wet down to saturate substrate and remove excess water with compressed air.

Mixing

Mix Part A powder to Part B liquid in a clean container with a low speed mechanical mixer. Carefully mix to disperse the powder until a slurry consistency is achieved. Avoid excessive or high speed mixing which may entrap air into the mix.

Application

The application of MC-Proof 501 Flex is made in two applications. Apply the first coat of MC-Proof 501 Flex with a stiff brush to evenly cover the area.

The second coat may be applied with a soft brush or roller when the first has become tack free after about 3 to 5 hours, depending on the ambient condition.

The recommended thickness of application is 1 mm per coat depending on the expected water pressure and abrasion. MC-Proof 501 Flex has to be applied in minimum 2 coats.

Care shall be taken to keep the maximum thickness of each application to less than 1.5mm.

For areas which exposed to sunlight, protective topping shall be installed to further enhance the durability of MC-Proof 501 Flex.

MC-Proof 501 Flex may be spray applied with suitable equipment.

Curing

Care must be taken that MC-Proof 501 Flex is suitably protected, especially from sun and wind to prevent it from drying out too rapidly.

Coverage

Coverage rate is dependent on texture, temperature and porosity of the substrates. To determine this exactly, a sample area should be laid.



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Technical Data for MC-Proof 501 Flex

Characteristic	Unit	Value	Comments
Mixing Ratio	p.b.w.	2 : 1	powder : liquid
Pot Life at 28°C	minute	~40	shorter pot life at higher temperatures
Adhesion to Concrete (ASTM D4541)	N/mm ²	~1.0	
Crack Bridging (ASTM C836:95)	mm	~0.65	at 1.5 mm dry layer thickness
Elongation at Break (ASTM D412)	%	50	of layer thickness
Water Penetration (DIN 1048-5 : 1991)	mm	<1.0	
Coverage	kg/m ²	~2.0	Applied in 2 coats

Product Characteristics for MC-Proof 501 Flex

Colour	Part A : Light grey Part B : Milky
Packaging	Part A : 20 kg bag (powder) Part B : 10 kg canister (liquid)
Storage	Can be stored in shaded, cool and dry conditions in original unopened packs for: Part A: 6 months or 12 months (with additional layer of LDPE bag) Part B: 12 months
Disposal	In the interest of the environment, please empty all packs completely & in accordance with local regulations.

Safety Advice

MC-Proof 501 Flex does not contain any hazardous substances requiring labeling. It is safe for use with standard precautions followed in the construction industry. Such as use of hand gloves, safety goggles etc.

For detailed Health and Safety and Environment Information please refer to the product Material Safety Data Sheet.



Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 01/25. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.