MOISTURE CURED WATERPROOFING MEMBRANE MCM-9301

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No. TD : M-083 Revision : 01 Effective Date : 08/01/2025

DESCRIPTION

MOISTURE CURED WATERPROOFING MEMBRANE MCM-9301, Non-Exposed System one component aromatic type liquid PU waterproofing membrane, that can be cured with moisture to provide seamless, flexible, and strong waterproofing with excellent crack bridging properties.

FIELD OF APPLICATION

non-exposed waterproofing for

- Flat roof
- Planter box
- Roof garden
- Bathroom
- Balcony
- Ground water tank
- Swimming pool

PRODUCT FEATURES

- Excellent physical and mechanical properties, good elasticity and resilience, high tensile strength
- Good bonding properties, strong adhesion
- Excellent water and corrosion resistance, mildew resistance, especially suitable for log-term soaking part of waterproof constructions
- Excellent low temperature flexibility
- Environmentally friendly, no addition of benzene, toluene, xylene and any other toxic solvents, no coal tar.

TECHNICAL DATA

Туре	: Aromatic polyurethane
Appearance	: Black
Solid content	: 85 ± 5 %
Viscosity, brookfield, 30°C	: 8000 ± 2000 cps
Specific gravity	: 1.50 ± 0.5 g/cc
Packing	: 25 kg/pail
Application condition Thinner Mixing ratio by weight Application method Material consumption Re-coating time	 : temperature 25 - 35°C, coating installation is forbidden in rainy weather : - : RFU : rubber or metal scraper, brush, roll : 1,6 - 1,8 kg/m² per 1 mm wet film thickness : 12 - 24 hours

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OTHERS Shelf life Storage and handling

6 months if stored in cool and dry condition in original sealed container.
Store in good ventilation room temperature. Exposure to direct sunlight should be avoided.

SURFACE PREPARATION

 The concrete substrate should be clean, dry, and free of all contamination such as dirt, oil and grease. Surface should be flat, solid, dry, no sharp convex, honeycomb, pitted and peeling.

APPLICATION INFORMATION

- Additional layers: make the additional layers in detail node like deformation joint, water outlet, concave and convex corners. Pre-install reinforcement materials and then brush these places for 2-4 times until thoroughly penetrating into it. Keep no folds and edge warp.
- Use rubber or metal scraper to brush evenly and brush 2-3 times. The first time should apply a thin coating film to seal the base surface's pinholes, then carry out the next coating when previous coating is dry, normally need 12 h, in low temperature shall extend the drying time, and brushing direction should be vertical to the previous one.
- Tip and edge seal: add-coating for sealing.

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• After the acceptance of the waterproof layer of the coating film, the protective isolation layer can be carried out according to the relevant specification or design requirements.

COATING SYSTEM

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EXPOSE WATERPROOFING	CA (g/m²)	Coating Interval
- MCM-9301	: 600	12-24 hours
+ fiber net (optional)		
- MCM-9301	: 600	12-24 hours
- MCM-9309	: 500	
TOTAL	: 1700	

Note: step 1 and 2 can be use MCM-9309 as multilayer coat.

PLANTER BOX

EXPOSE WATERPROOFING	CA (g/m²)	Coating Interval
- MCM-9301	: 400	12-24 hours
+ fiber net (optional)		
- MCM-9301 (1-2 coat)	: 400	12-24 hours
TOTAL	: 800-1200	

BATHROOM, SWIMMINGPOOL, GROUND WATERTANK

EXPOSE WATERPROOFING	CA (g/m²)	Coating Interval
- MCM-9301	: 600	12-24 hours
+ fiber net (optional)		
- MCM-9301	: 600	12-24 hours
- MCM-9301	: 600	
- Ceramic (optional)		
TOTAL	: 1800	

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ROOF GARDEN

EXPOSE WATERPROOFING	CA (g/m²)	Coating Interval
- MCM-9301	: 600	12-24 hours
+ fiber net (optional)		
- MCM-9301	: 600	12-24 hours
- MCM-9301	: 600	
- Drainage cell		
- Geotextile		
- Soil		
TOTAL	: 1800	

SPECIFICATION ACCORDING TO SNI 8555:2018

No	Item Test	Test method	Unit	Test result	Requirement
1	Pull-off adhesion test	ASTM D4541	MPa	> 2	Min. 1
2	Elongation at break	ASTM D2370	%	> 800	Min. 300
3	Tensile strength	ASTM D2370	MPa	> 2.5	Min. 1.2
4	Water vapor transmission	ASTM D1653	kg/det.m². Pa	± 1.3 x10 ⁻¹¹	Data only
5	Water absorption	ASTM D471	% weight	± 1.5	Max. 20
6	Accelerated weathering test, 500 hours	ASTM D4798	-	n.a.	No crack
7	Bending test after accelerated weathering test 500 hours	ASTM D522	-	n.a.	No crack
8	Crack bridging	ASTM C835-00	mm	± 30	-

SAFETY PRECAUTIONS

This product does not contain any material with heavy metals such as lead. Avoid contact with skin and eyes. Wear suitable protective clothing such overalls, goggles, dust mask and gloves. Use barrier cream. This product is not flammable. Do not breathe vapor of spray.

First Aid

Inhalation

Skin contact : Rinse under plenty of water immediately. Seek medical advice if irritation persists.

Eye contact : Wash off under plenty of water immediately. Seek medical advice if irritation persists

: Take the person out to get more fresh air, loosen collar and avoid exertion. Keep him rested and help using breathing apparatus.

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