MFT PRO 25 B-FIRE MINERAL

Compound
MFT
Multi-Flex-Technology

CHARACTERISTICS

MFT PRO 25 B-FIRE MINERAL is an innovative multi-coating bituminous membrane made with the MFT Multi-Flex Technology, another result of the constant Copernit research, combining in one product the advantages of both APAO and SBS membranes.
MFT technology exceeds the traditional coating processes and gives the possibility to design the bituminous membrane by choosing three different bituminous compounds layers into the same product, depending on the final destination of use and required performances.
MFT PRO 25 B-FIRE MINERAL, in fact, is composed by the following three coats:

- Upper face: highly modified bituminous compound with selected poly-olefins and copolymers (APAO), giving an oustanding resistance to high temperatures and UV ageing
- Lower face: superior elastomeric compound made of distilled bitumen modified with SBS (Styrene-Butadiene-Styrene) polymers, which ensures extreme elasticity, ease of application and superior bonding and tightness of all joints and overlaps
- Reinforcement impregnation: special modified compound, made on purpose for the best pliability and resistance to mechanical stresses and perforation

MFT PRO 25 B-FIRE MINERAL is a membrane of un-compromising quality, designed for use by professionals for professional applications where the waterproofing layers really must withstand static and dynamic forces as well as severe weathering and adverse climate conditions.

Thanks to the special combination of:

- MFT multi-coating performances
- Mechanical protection given by the MINERAL surface finishing
- High resistance to perforation offered by the high-grade reinforcement
- Resistance to external fire granted by its special formulation

MFT PRO 25 B-FIRE MINERAL becomes a single-layer waterproofing shield against hail, fire and severe weather conditions.
It has, in fact, successfully passed the hail resistance test, in according to European method EN 13583, remaining intact to the action of hailstones with speed of 180 km/h. Moreover, thanks to its special formulation, MFT PRO 25 B-FIRE MINERAL has specific resistance proprieties to external fire: tests performed by notified laboratories according to ENV 1187 classify our membrane as B_{ROOF}(t2) according to EN 13501-5.

CARRIER

MFT PRO 25 B-FIRE MINERAL has a special high-grade 250 g/m^2 spunbond polyester carrier, reinforced and stabilised with composite fibers and glass, that provides superior dimensional stability, excellent tensile properties and very high resistance to impact and static loading.

INTENDED USE ACCORDING "CE" MARK STANDARDS

Exposed **single layer B_{ROOF}(t2)** system for roof waterproofing (EN 13707)	**MFT PRO 25 B-FIRE MINERAL** 5,0 mm

Note: external fire classification refers to the build-up system (substrate+insulating element+waterproofing) as tested in laboratory. Please consult "**B-Fire membranes**" technical guide provided by Copernit Technical Department in order to verify the reference documents and the direct field of application; in the table below an overview of the admissible substrates for MFT PRO 25 B-FIRE MINERAL is reported.

CLASSIFICATION	SYSTEM		SUBSTRATE	
	SINGLE-LAYER	DOUBLE-LAYER	COMBUSTIBLE	NOT COMBUSTIBLE
B_{ROOF}(t1)				
B_{ROOF}(t2)	✓		✓	✓
B_{ROOF}(t3)				
B_{ROOF}(t4)				

AVAILABLE SURFACE FINISHES

Upper surface: self-protection by means of slate flakes available in standard grey or other various colours upon request.

Lower surface: Polyethylene fast burning film. For cold applications by means of adhesive the use of TEX finishing on the lower surface is recommended.

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USE & APPLICATION

MFT PRO 25 B-FIRE MINERAL is indicated for hail-resistant single layer B_{ROOF}(t2) waterproofing systems on flat, pitched or vaulted roofs, with or without thermal insulation.
Please refer to the intended use table above for more details about B_{ROOF} classified systems.
Subject to the type of substrate MFT PRO 25 B-FIRE MINERAL shall be installed by means of a propane gas torch, approved adhesives or by mechanical fixing. In any case it is recommended to prepare substrate with fixative bituminous PRIMER W (water base) or PRIMER S (solvent base).
For correct installation refer to information provided by Copernit Technical Department.

Properties	Test Method	Unit	MFT PRO 25 B-FIRE MINERAL 5,0 mm	Tol.
Length	EN 1848-1	m	7,5 (-1%)	≥
Width	EN 1848-1	m	1,0 (-1%)	≥
Thickness	EN 1849-1	mm	5,0	±0,2
Tensile strength (at break) L/T	EN 12311-1	N/5 cm	1000/900	±20%
Elongation (at break) L/T	EN 12311-1	%	50/50	±15
Tear resistance (nail test) L/T	EN 12310-1	N	250/250	±30%
Shear resistance of joints L/T	EN 12317-1	N/5cm	900/800	±20%
Resistance to static loading	EN 12730 (A)	kg	20	≥
Impact resistance	EN 12691	mm	1500	≥
Dimensional stability	EN 1107-1	%	±0,3	≤
Flexibility at low temperature – *upper surface*	EN 1109	°C	-15	≤
Flexibility at low temperature – *lower surface*	EN 1109	°C	-25	≤
Flow resistance at elevated temperature – *upper surface*	EN 1110	°C	140	≥
Flow resistance at elevated temperature – *lower surface*	EN 1110	°C	100	≥
Watertightness (method A)	EN 1928	kPa	60	≥
Resistance to water vapor diffusion (μ)	EN1931	--	20.000	--
Reaction to fire	EN 13501-1	Class	E	--
Resistance to external fire	EN 13501-5	Class	B_{ROOF}(t2)	--
Hail resistance – rigid support	EN 13583	m/s	50 – no damage	--
Hail resistance – soft support	EN 13583	m/s	50 – no damage	--

For complete product information and correct installation, refer to the "MFT MULTI-FLEX TECHNOLOGY" catalogue provided by Copernit.

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