

Data Sheet

MAXI PROJECT New generation APAO single layer mineral overlay



Maxi project single layer mineral overlay membranes are new generation APAO membranes, specifically formulated by Sappi to provide the ideal solution for re-roofing of mineral finish roofs.

APAO Compound Technology

“Amorphous Polly-Alpha-Olefins” , commonly known by their acronym as APAO are one of the most advanced modifiers used in the modern modified bitumen membrane industry. APAO technology combines the best characteristics of Plastomers and Elastomers in one single product (i.e: flexibility and adhesion of a good elastomer; and heat resistance, UV stability and chemical resistance of a top quality Plastomer). APAO polymers also provide the best anti-ageing properties, ensuring the longest possible life expectancy for a membrane roofing system in any weather conditions. APAO comes in different grades and types and careful blending and mixing is essential in order to obtain the desired performances and life expectancy of a bitumen compound and therefore, of a bitumen based waterproofing membrane. 50 years of experience in manufacturing bitumen membranes have enabled Sappi to create a unique APAO compound which, combined with a superior, heavy duty polyester reinforcement, makes Sappi MAXI Project one of the best quality and most versatile modified bitumen membranes on the market.

MAXI Project Mineral Overlay membranes are quick and easy to apply thanks to their special APAO Bitumen compound mix. After application, Maxi Project Mineral Overlay requires only minimal routine maintenance.

MAXI Project Mineral Overlay membranes are 4mm plus mineral for a 15 year guarantee and 5mm plus mineral for a 20 year guarantee.

Features and Benefits

Maxi Project Mineral Overlay membranes are simply “built stronger to last longer” , providing the best combination in terms of reinforcement, thickness, and compound formulation. After appropriate surface preparation, Maxi Project mineral overlay can be applied directly on the old existing roof, reducing both installation time and costs. No stripping of existing roof, therefore less risk of water ingress. No risks of exposure to potential hazardous products in the old roof (e.g Asbestos or Tar). Less materials used, therefore, reduction in manual handling costs, reduction in transportation costs to site, reduction in packaging waste.

MAXI Project Mineral Overlay membranes are available in a range of several mineral colours. User friendly:

Description

Elastoplastomer polymer bitumen membrane, compound in distilled bitument modified with APAO (Amorphous Poly Alpha Olefins) high molecular weight polymer, reinforced with non-woven spunbond polyester fabric, glass stabilized, top face coated with hot-bonded slate granules.

Technical Data

Characteristics	EN DRC	Unit	Value			Tol
Visible defects	EN 1849-1	-	pass			-
Thickness (on selvedge)	EN 1849-1	mm	4	or	5	-10%
Areal Mass	EN 1849-1	kg/m ²	-			npd
Width and Length	EN 1849-1	m	1.0		7.50	-1%
Straightness	EN 1849-1	mm	max 20			pass
Max Tensile Force (L/T)	EN 12311-1	N/5cm	900		700	-20%
Elongation (L/T)	EN 12311-1	%	45		45	-15abs
Resistance to Tearing (L/T)	EN 12310-1	N/5cm	160		160	pass
Resistance to static loading	EN 12730-A	kg	20			pass
Resistance to impact	EN 12691	mm	1200			pass
Joint Strength (L/T)	EN 12317-1	N/5cm				npd
Peel Resistance of joint	EN 12316-1	N/5cm				npd
Pliability (Cold flexibility)	EN 12316-1	°C	-20			pass
Pliability (Aged)	EN 1296	°C				pass
Uv Ageing (Visible Defects)	EN 1297	-	pass			-
Watertightness	EN 1928	kPa	60			pass
Water vapour Permeability	EN 1931	μ x 1.000	20 (default)			npd
Water vapour Permeability (Aged)	EN 1296	μ x 1.000				npd
Form Stability (New/Aged)	EN 1110	°C	130		130	pass
Dimensional stability (L/T)	EN 1107-1	%	-0.25		+0.15	pass
Root Resistance	EN 13948	-				npd
External Fire Performance	EN 13501-5	class	F (roof)			npd
Reaction to Fire	EN 13501-1	class	F			npd
Adhesion of Granules (Mineral version)	EN 12039	%	≤ 30			pass
Pallet composition	thickness	mm	-	-	4	5
	Rolls + Pallet	n	-	-	20	16

Field of Application

Single layer mineral overlay; mineral cap sheet in a multi-layer waterproofing system.

Method of Application

Torched -on.

Application Directive

EN 13707

Dangerous Substances

The product does not contain asbestos or tar.