

EURO POLYMERS DIAMOND VIRIDIS ANTI ROOT MEMBRANE IS A PREFABRICATED MODIFIED POLYMERBITUMEN MEMBRANE MANUFACTURED WITH A COMPOUND COMPOSED OF DISTILLED BITUMEN AND ELASTOMERS (SBS), AND A SPECIAL ADDITIVE WITH ANTI-ROOT PROPERTIES WHICH DOES NOT DETERIORATE WITH TIME, REINFORCED WITH A WOVEN NON WOVENWOVEN COMPOSITE POLYESTER FABRIC. THE MODIFIED COMPOUND OFFERS EXCELLENT AGEING PROPERTIES, COLD FLEXIBILITY, DURABILITY AND A VERY HIGH ELASTICITY

1. APPLICATIONS

DIAMOND VIRIDIS ANTI-ROOT MEMBRANE is designed to be used in those situations where the membrane is in direct contact with the soil, such as roof gardens, underground tunnels and garages, foundations, road structures, etc. In multi-ply applications, DIAMOND VIRIDIS ANTI-ROOT MEMBRANE should be the last layer over a polyester reinforced membrane which is applied as the first layer and will be astride and over the first layer joints.

2. TYPICAL PERFORMANCE DATA

Technical Properties	Measure Units	PA	Tolerances
Reinforcement		composite polyester	
Finish: Upper Face		mineral	
Roll Length (EN 1848-1)	m	10	± 1%
Roll Width (EN 1848-1)	m	1	± 1%
Thickness (EN 1849-1)	mm	4 on mineral	± 5%
Nominal Weight (EN1849-1)	Kg/m ²		± 10%
Tensile Strength (EN 12311-1)			
Longitudinal / Transversal	N/5 cm	500/400	± 20%
Ultimate Elongation			
Longitudinal / Transversal	%	35/35	± 15
Tear Strength Method L/T (EN 12310-1)	N 130/130		
Cold Flexibility (EN 1109)	°C	-15	
Dimensional Stability (EN 1107-1)	%	L±0.3 T±0.3	
Flow Resistance (EN1110)	°C	+ 100	
Watertightness (EN1928)	Kpa	60	



3. GUARANTEED DURABILITY

DIAMOND VIRIDIS ANTI-ROOT provides an excellent barrier against roots. The special additive used in the compound is fully dispersed in the membrane which guarantees the membrane is a continuous barrier to root penetration even at the joints. This is an application advantage when compared to membranes having an antiroot reinforcement which allows root penetration at the joints and therefore require two staggered layers to be applied. DIAMOND VIRIDIS ANTI-ROOT is a single layer defence where the additive does not migrate, is not affected by chemical aggression or fertilizers and is not in any way washed out of the compound. During Application the heat does not affect the special anti-root additive.

DIAMOND VIRIDIS ANTI-ROOT is supplied with a natural slate (green mineral) finish which allows the membrane to be used in any areas exposed to U.V. without any further treatment. The lower face DIAMOND VIRIDIS ANTI-ROOT is backed by a special polyethylene burn-off film which melts during torching and prevents the roll from sticking to itself. The correct application temperature is visible from the embossed surface of the membrane which is below the burn off film. when the correct application temperature is reached, the embossment melts which also assists vapour diffusion avoiding blistering. The burn off film also has a printed 10cm square which allows the alignment of the side laps quickly and easily during application.

DIAMOND VIRIDIS ANTI-ROOT offers an excellent static and dynamic puncture resistance, high tensile strength, both longitudinal and transversal, and excellent dimensional stability.

The DIAMOND VIRIDIS ANTI-ROOT polymer-bitumen membranes are applied:

- With a propane gas torch
- Mechanically fastened

The suggested application tools required are a knife and rounded tip trowel. Depending on the application, structure and specification, the DIAMOND VIRIDIS ANTI-ROOT polymer-bitumen membranes can be:

- Fully bonded
- Spot bonded
- Loose laid

In case of spot bonding, an area of 100cm at each side of the end laps and 150mm at the head joints should always be fully bonded.

4. INSTALLATION

1. Application surface must be smooth, free of moisture, ponding water and dust.
2. The application area must be provided with an adequate drainage system.
3. The substrate must be primed with a bituminous based product and allowed to dry prior to application.
4. Do not apply below +5°C.
5. Do not apply during adverse weather conditions
6. In case of application on vertical or considerable slopes, apply proper mechanical fasteners.

5. GUARANTEES AND WARRANTIES

Euro Polymers offer a full range of guarantees and warranties.

AWM Protector, Pathfinder and Pioneer warranties offer varying levels of term and cover.

Please contact Euro Polymers for further details.