

ARMORSEAL 250

Polyurethane System

Product Description:

Armorseal 250 is a revolutionary single component permanently elastic Polyurethane waterproofing membrane which after polymerization forms an elastomeric polyurethane membrane, resisting UV rays and capable of handling building movements.

Once cured Armorseal 250 **MTC** allows for expansion and contraction over a broad temperature range and maintain waterproofing properties under continuous exposure to water. It may be applied easily on different surfaces (concrete, mortar, brick, ceramics, bituminous membranes, steel, zinc, aluminium).

Advantages:

- Excellent resistance to water and microorganism
- Resistance to temperature variation. Armorseal 250 **MTC** membrane keeps its characteristics even in temperature between 50C to 100C
- Waterproof surface can be used for medium traffic
- Provides sun reflectivity, contributing to thermo-insulation.
- It offers a seamless waterproofing system, allowing for easy localization of damage and repair.
- High strength and puncture resistance
- No complicated detailing, therefore application is simple.
- Please note that ARMORSEAL 250 is a system not a product

Typical Application Areas:

Armorseal 250 MTC can be used for the waterproofing of concrete, tiles and metal surfaces such as:

- *Roof*
- *Terraces and Balconies*
- *Planter boxes*
- *Retaining walls*
- *Wet areas in bathrooms under tile*
- *Foundations, Car parks. ETC*

Application Guidelines:

SURFACE PREPARATION

Adequate and detailed surface preparation is essential for durability of product after installation. Before application surface must be clean, dry and without contamination. The compressive strength of substrate must be at least 25MPa and cohesive bond strength must not be less than 1.5Mpa.

All loose concrete, chippings and dust should be removed, and uneven surface smoothed with the aid

of grinding machine finally the moisture content must be less than 5%.

DETAILING AND CRACK TREATMENT

We recommend the hydrosil fabric for all joints detailing. Adequate detailing must first be undertaken for all joints, and edges before treatment commence. This involves the installation of Hydroglass, Hydrosil fiberglass with Armorseal 250 MTC on all the joints and Cracks must also be treated with the Hydroglass and the Armorseal 250 before the commencement of installation.

APPLICATION OF ARMORSEAL 250

For all roof waterproofing applications please use Hydroglass emulsion fabric to reinforce the whole area for long term durability and protection. Armorseal 250 MTC can used on surfaces not primed so far the surfaces are properly prepared and cleaned. However, in the event that the event that the surface needs priming Hydrosil epoxy primer would be ideal.

Pour Armorseal 250 MTC onto the substrate to be treated and spread with a roller or brush at minimum consumption of 0.75kg to 1 kg/m² as first layer. Lay Hydroglass Non-Woven fabric reinforcement into the wet membrane, press in and roll flat with a roller to fully saturate the fabric. All lap joints in the fabric reinforcement should be minimum 50 mm.

Apply second coat of Armorseal 250 MTC after 6-8 hours of first application. Please note that Aggregate can be introduced into the second coat to achieve coarse, hard and anti-slip surface for medium to light heavy traffic. Characteristics of aggregate should be silica quartz aggregate, 0.8 - 1.2 mm, applied whilst the membrane is still wet. Armorseal 250 MTC can also be sprayed with Airless sprayer.

Limitations Health and Safety:

Armorseal 250 MTC is slippery when wet, please take appropriate precautions. An anti-slip finish can be achieved by client if required, this involves introduction of aggregate at the second coat installation

Please ensure that hand gloves and goggles are worn during installation. Armorseal 250 MTC is VOC free, therefore not particularly constitute health risk during application and after application, however, it is common practice to ensure standard safety procedure when handling all chemicals.

Storage:

All products should be stored in original packaging at temperatures between 5°C and 25°C. Protect products from all sources of heat, moisture, frost and direct sunlight. When opened product should be consumed immediately unless bucket can be sealed back without allowance for air. Shelf life for all products is 9 months maximum.

Technical Performance and Standard Tests:

	Property	Value
CE ETA 12/0103	Minimum layer thickness	1.6 mm
	Water vapour diffusion resistance factor μ	~ 1830~
	Resistance to wind loads	> 50 kPa
	Reaction to fire	Class E
	External fire performance class	Class F _{roof}
	Dangerous substances	Does not contain any
	Working life	W2
	Climate zones	M and S
	Imposed loads	P1 to P3
	Roof slope	S1 to S4
	Lowest surface temperature	TL3
	Highest surface temperature	TH4



ARMORSIL MANUFACTURING INCORPORATION

Sede legale: VIA Montello 48, INT #3 Pordenone, Italy. 33170. Tel: + 30256365-16

www.armorsil.com, info@armorsil.com, sales@armorsil.com

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