

ARMORSEAL 250

LIQUID JOINTLESS POLYURETHANE WATERPROOFING 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 movement with a service life of 25 years.

Once cured **ARMORSEAL 250** 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, Aluminum).

USES

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

- Roof
- Terraces and Balconies
- Planter boxes
- Retaining walls ETC

ADVANTAGES

- Excellent resistance to water and microorganism
- Resistant to temperature variation.
- ARMORSEAL 250 membrane keeps its characteristics even in temperature between 500C to 1000C
- Waterproofed surface provides excellent weather resistance and UV resistance
- 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 and can adhere to almost any type of surface
- When applied it is jointless and no complicated detailing, therefore application is simple
- The waterproofed surface can be used for domestic, public pedestrian and vehicular traffic.
- Provides water vapor permeability, so the surface can breathe.
- Resistant to detergent, oil and other domestic chemicals
- Please note that ARMORSEAL 250 is a system not a product

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CURING

New concrete/ screed, must be allowed to cure for 28 days. 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 smoothened with the aid of grinding machine, the moisture content must be less than 5% Concrete cracks should be well cleaned and filled with a primer. Areas with large cracks must be paid special attention, they should be filled with ARMOR PU sealant and also covered with geotextile membrane after application of first coat.

PRIMING

Prime surface with **ARMORPRIMER 50** to allow proper adhesion of membrane with substrate

APPLICATION OF ARMORSEAL 250

ARMORSEAL 250 will be applied after priming in 2 coats. The second coat is applied within 24 hours of first coat application.

APPLICATION OF TOPCOAT

Where the application of topcoat is required to achieve a complete treatment system for longer service life of 36 years, apply one or two layers of the ARMORSEAL 700 Top-Coat over the ARMORSEAL 250 Application of ARMORSEAL 700 is required where a heavy duty, abrasion resistant surface is desired (e.g. Public Pedestrian Deck, Car Parking, etc), apply two layers of ARMORSEAL 700 topcoat.

LIMITATIONS, HEALTH AND SAFETY

ARMORSEAL 250 can be applied to achieve different finish appearance. 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 contains isocyanates, therefore apply in ventilated areas and away from flames. It is only important that during application and after application that standard safety procedure when handling all chemicals. Please consult current MSDS for product. For Professional Use only

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. ARMORSEAL 250 is packed in 25kg pail.

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TECHNICAL PERFORMANCE AND STANDARD TESTS

PROPERTY	TEST METHOD	RESULTS
Hardness (Shore A Scale)	ASTM D 2240	60 shore A
Elongation At Break	ASTM D 412 / DIN 52455	≥ % 900
Tensile Strength	ASTM D 412 / DIN 52455	≥ 8 N/mm ²
Water Vapor Permeability	ASTM E 96	0,8 gr/m ² sat
Adhesion to Concrete	ASTM D 903	≥ 2N/mm ²
Service Temperature		-40 °C to +80 °C
Rain Stability Time		4 hours
Final Curing Time		7 days

LIMITED WARRANTY

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use away.

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