

# ARMORSEAL 200

PURE BITUMEN EMULSION

## PRODUCT DESCRIPTION

**ARMORSEAL 200** is a liquid-applied, one component bitumen membrane, for waterproofing with excellent elasticity.

**ARMORSEAL 200** is based on pure elastomeric hydrophobic resins, and is extended with chemically polymerized virgin bitumen, which results in excellent mechanical, chemical, thermal and natural element resistance properties.

## ADVANTAGES

- Easy to apply.
- seamless membrane without joints.
- Water resistant
- Provides excellent crack-bridging properties.
- excellent thermal resistance, it doesn't turn soft.
- Provides excellent adhesion to almost any type of surface.
- Resistant to domestic chemicals.
- No need to use open flames (torch).

## APPLICATION AREAS

**ARMORSEAL 200** can be used for the waterproofing of concrete, tiles and metal surfaces such as:

- Roof
- Terraces and Balconies
- foundation
- Retaining walls
- Wet areas in bathrooms under tile

## COVERAGE

ARMORSEAL 200 covers 20-30 sqm. ARMORSIL recommends application in 2 -3 coats.

## TECHNICAL PROPERTIES

PROPERTIES	RESULTS	TEST METHOD
Color	Black	
Elongation at Break	> 800 %	ASTM D 412 / DIN 52455
Tensile Strength	> 4.5 N/mm <sup>2</sup>	ASTM D 412 / DIN 52455
E-Modulus	~ 0.6 N/mm <sup>2</sup>	ASTM D 412 / DIN 52455
Tear Resistance	14.1 N/mm	ASTM D 624
Puncture Resistance	150 N	ASTM E 154
Resistance to Hydrostatic pressure	No leak @ 3 bar (30 m water column)	DIN 16726
Adhesion to concrete	> 1.0 N/mm <sup>2</sup>	ASTM D 903
Hardness (Shore A Scale)	35	ASTM D 2240 (15")
Thermal Resistance (80°C for 100 days)	Passed-No significant changes	EOTA TR-011

## APPLICATION GUIDELINE

### 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, the moisture content must be less than 5% Concrete cracks should be well cleaned and filled with ARMORLATEX. Areas with large cracks must be

paid special attention.

## **APPLICATION OF TOPCOAT**

Stir well for at least 2-3 min.

ARMORSEAL 200 should be applied to the surface with roller or brush, until the entire surface is covered. After 8-24 hours, another layer of ARMORSEAL 200 should be applied. For demanding applications, apply a third layer of the ARMORSEAL 200. If the ARMORSEAL 200 is to be covered with ceramic tiles, fully saturate with oven-dry silica sand (corn-size 0.4-0.8mm) the last layer while still wet. This saturation will create an adhesion bridge to the tile adhesive that will follow.

## **LIMITATIONS, HEALTH AND SAFETY**

Please ensure that hand gloves and goggles are worn during installation. ARMORSEAL 200 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 12 months maximum. Armorseal 200 is packed in 20kg pail.

## **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.

Armorsil Manufacturing supplies products that comply with the properties shown on the current datasheets. In the unlikely event that products supplied are proved not to comply with these properties, then we will replace the non-compliant product or refund the purchase price. Armorsil Manufacturing does not warrant or guarantee the installation of the products as it does not have control over the installation or end use of the products. Any suspected defects must be reported to Armorsil Manufacturing in writing within seven working days of being detected. Armorsil Manufacturing. Makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties express or implied. Neither seller nor Armorsil Manufacturing shall be liable to the buyer or any third person for any injury, loss or damages of any sort including remote or consequential damages, down time, or delay directly or indirectly resulting from use of or inability to use the product. The information contained in the latest data sheet supersedes all previously published editions. Visits to site by Armorsil personnel do not constitute supervisory responsibility. Armorsil reserves the right to alter the information contained in this datasheet without prior notice.