Shieldguard AW140

Premium, Elastomeric, Acrylic Waterproofing Membrane

TECHNICAL DATA SHEET

Description

Shieldguard AW140 is a single-component, water-based acrylic waterproofing membrane, designed to provide flexible waterproofing coating for various types of substrates.

Uses

- Protects concrete structures from water.
- In commercial and residential construction structures.
- Bridge abutments.
- Roofs and walls.
- Multi-storey buildings and villas.
- Exposure to tough external conditions.
- Application over sloped roofs.

Characteristics / Advantages

- Ready to use, single component where no mixing is required.
- Can be used on different substrates such as concrete, gypsum board, asbestos, etc.
- Durable, color-stable, and provides excellent UV and weathering resistance.
- High elongation and tensile strength.
- Excellent flexibility.
- Excellent waterproofing characteristics.
- Low dirt pickup.

Packaging

Shieldguard AW140 is supplied in 20 kg and 25 kg packs.

Shelf Life and Storage

Shieldguard AW140 has a shelf life of 12 months when stored in its original unopened packaging in cool and dry conditions, protected from direct sunlight, heat, and moisture. Shelf life may be reduced if the recommended storage conditions are not followed.

Typical Properties

Color	White /other colors are available upon request
Specific Gravity (@ 23°C)	1.35 ± 0.10
Solid Content	60 ± 3% by weight 50 ± 3% by volume
Elongation at Break (ASTM D412) @7 days	> 400%
Tensile Strength at Break (ASTM D412) @7 days	> 2 MPa
Water Vapor Transmission (s_d) (ASTM E96)	0.38 (Permeable)
Pull-off Adhesion (EN 1542)	> 2 MPa
Solar Reflectance Index (SRI) (ASTM E1980)	110
Solar Reflectance (%) (ASTM C 1549)	92.45%
VOC (ASTM D2369)	< 35%
Wet/Dry Film Thickness	500 µm/coat
Number of coats	2 coats
Overcoating Time	4 hours
Full Cure	7 days

Safety Instructions

Avoid contact with the eyes and skin. In case of direct contact with the skin, wash the affected area immediately with water for several minutes. If it comes into contact with the eyes, rinse immediately with lukewarm water for at least 15 minutes and get medical advice or treatment if any emergency warning signs appear. For further information, refer to the Material Safety Data Sheet.

TECHNICAL DATA SHEET

Application Instructions

1. Surface Preparation

The substrate must be sufficiently cured to avoid any shrinkage cracks, and clean from dust, oils, dirt, curing compounds, etc.

The substrate must be sloped, with sufficient drainage outlets to prevent standing water on the acrylic waterproofing layer.

Before starting the application, use a pressure washer to clean the substrate, using a non-filming detergent. The application temperature is 5 – 35℃.

2. Priming

Surfaces should be primed with **Shieldprime AWB** at the rate of 0.20 L/m^2, according to the porosity of substrates.

In normal conditions, the application should be carried out a minimum of two to three hours before applying **Shieldguard AW140**.

3. Application

Shieldguard AW140 can be applied using a brush, airless sprayer, or roller at a rate of 0.50 kg/ m^2 per coat.

Allow the first coat to cure for 4 – 5 hours, depending on the ambient temperature, to ensure full curing before applying the second coat.

The second coat should be applied by cross-rolling perpendicular to the first coat to ensure complete coverage.

4. Cleaning

All mixing equipment and application tools should be cleaned immediately with clean water. Hardened material should be mechanically removed.

Consumption and Coverage

Approximately 1.0 kg per m^2 at a total dry film thickness of 1 mm per two coats. The 20 kg bucket should cover 20 m^2 at two coats.

Note: This coverage is theoretical and may vary due to site wastage, substrate roughness/porosity, and absorption rate.

Limitations

- Do not apply the product if the ambient temperature is less than 5°C.
- Hot weather practices should be adopted during application and curing if the temperature is above 35°C. In hot conditions, store the material in a cool environment prior to mixing.

Technical Support

Refer to technical information, method statement, or contact technical support team for any inquiry.

Address: Manaseer Group, 8th Circle, King Abdullah II St. 302
P.O. Box 925988 Amman, 11110, Jordan
Phone +962 6 5800600
Fax. +962 6 5833890
Email: info.shield@manaseer-ic.com
Website: www.manaseergroup.com

LEGAL DISCLAIMER: All information provided, and recommendations made herein are intended to assist customers in determining whether our products are suitable for their applications. We request that customers inspect and test our products before use in order to make their own final decision regarding suitability. We do not guarantee results, freedom from patent infringement, or suitability of resultant products for any suggested application with respect to the use of any formula or material described herein.