



# SCUDO SYSTEM

Art. code see DDT

Date of issue 07.04.2011

Review nr. 04-7Oct2013

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88 South State Street, Hackensack, NJ 07601 / Tel. 201.525.0775 / Fax. 201.525.0771  
info@winklerusa.com / www.winklerusa.com

## SCUDO SYSTEM

(Water-Based Below-Grade Waterproofing Self-Protected Membrane)

### DETAILED DESCRIPTION OF THE PRODUCT

**SCUDO SYSTEM** is a resin-based rubber reinforced trowel-grade waterproofing membrane in water emulsion.

### USE FIELDS

**SCUDO SYSTEM** was specifically developed for waterproofing and protection of below grade structures such as: counter-ground walls, foundations and footings, retaining walls, precast concrete blocks and walls, swimming pools exterior walls, mass concrete products. It has an excellent bonding strength on concrete, masonry and wood. The rubber content gives an excellent resistance to puncture and compression. Thanks to the high elasticity maintained thru its entire life **SCUDO SYSTEM** does not require additional protection. Back-fill can be done directly against the structure that has been covered with **SCUDO SYSTEM**, after the product is fully cured.

### SURFACE PREPARATION

Clean all support surfaces thoroughly in order to eliminate dirt, dust, and loose materials, any form of oil or grease and foreign or bonding-proof matters. All 90° interior angle (floor to wall type) junctions should be flashed to 45° or "rounded" in order to ease the application of the material and to ensure the proper continuous adherence to the support. Apply **SCUDO SYSTEM** only on dry surfaces. Before applying the product check the support for hidden humidity to avoid scaling and superficial blisters due to vapor pressure during and after the application.

### WARNING

Before applying **SCUDO SYSTEM** on concrete ensure that the concrete support is cured (usually 28 days after casting, although when certain additives or special cements are

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used in the concrete mix the curing time for the concrete may be shorten), and there is no hidden humidity contained in the structure.

Do not apply **SCUDO SYSTEM** on frozen surfaces, or when precipitations, heavy fog or frost is imminent. Once applied, protect **SCUDO SYSTEM** from water, rain, snow or frost for at least 24 hours. After 24 hours, the resistance to water is optimal.

Backfill can be made after 4 to 7 days, when the membrane is fully cured (does not present any soft molding area when pressing against it). Ensure that the application temperature range of 41F to 104F (5°C and 40°C) refers to the substrate and to the ambient, and that it will remain in within the same range during the entire curing process.

### APPLICATION

The product is ready to use and can be applied in one coat using a straight blade metal trowel or airless spraying gun. Depending on the porosity of the substrate the application rate may vary between 5.67 and 6.78 gallons/100 sq. ft. (2.8 - 3.3 kg/m<sup>2</sup>), corresponding to an average wet thickness of 100 mils (2.5 mm).

Apply the product at temperatures between 41F and 104F (5°C and 40°C).

### CONSUMPTION

5.67 – 6.78 gallons/100 sq. ft. (2.8 – 3.3 kg/m<sup>2</sup>) in one coat (approximate coverage per pail: 64 sq. ft. – 76 sq. ft. or 6 – 7 m<sup>2</sup>).

### PACKAGING

4.33 gallons per pail. Net weight 44.1 lbs. (20 kg)

### TOOL MAINTENANCE

Clean the tools with soap and water before the product is fully dried.

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## STORAGE

The product can be stored in its undamaged package for 12 months. Please store it at temperatures between 41F and 95F (5°C and 35°C). Not frost-proof.

## SAFETY INSTRUCTIONS

### PRECAUTIONS

For information about safety, user must refer to the most recent Manufacturer Safety Data Sheet, edited in accordance with the regulations in place, which contains physical, toxic and other data about the product in use.

### ECOLOGY

Do not dispose the product and/or empty containers in the environment. Consult the most recent Manufacturer Safety Data Sheet for further information about proper disposal.

## TECHNICAL FEATURES

### PRODUCT CHARACTERISTICS

Consistency	Trowel grade
Color:	Black / grey
Specific gravity at 68F (20°C)	10.18 lbs. gal. (1.22 g/cm <sup>3</sup> ) +/- 0.8 %
Solid content (%)	72 (+/-1)
pH	9 (+/-1)
BROOKFIELD VISCOSITY at 68F (20°C)	40,000 +/- 3,000 cPs
VOC	9.516 g/liter

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## OPERATIONAL PRODUCT PERFORMANCES

\*M. Masini S.r.l. Test and Researches Institute – TEST REPORT N. 1367-2008

\*\* PRI Construction Materials Technologies – TEST: ICC-ES AC29

*DURABILITY	UNI EN 13251:2005 app. B	> 80%
*Water impermeability	UNI EN 1928:2002	60 KpA
*Resistance to static loading	UNI EN 12730:2002	>33.07 Lbs. (15 kg)
*Bond test to concrete	ASTM D 903 (Avg. value 1.62MPa)	No Detachment
**Extensibility after Heat Aging [Pass/Fail] 3 specimens; 3" x 4"; Cond. 14d @ 73.4±3.6°F & 50±10%RH followed by; Cond. 14d @ 158±3.6°F; Test Crack Extension = 0.5"/min from 0.00" to 0.25";	ASTM C 1522 / ASTM C 836	Pass
**Adhesion-in-Peel (after water immersion) (lbf/in) 4 specimens; 1"; Cond. 14d @ 23±2°C & 50±5%RH followed by; Cond. 7d @ 70±2°C; Immerse in distilled water for 7d @ 23±2°F Test Speed 2.0"/min; Test Condition 23±2°C & 50±5%RH	ASTM C 836 Section 5.9	6.4 (reqd. ≥ 1)
**Remain in Place During Application [Pass/Fail] 1 specimen; 6" x 3"; Cond. vertical 24h @ 23±2°C & 50±5%RH	ASTM C 836 Section 5.8	61
**Resistance to Water [Pass/Fail] 3 specimens; 4" x 4" x 1/16"; Cure. 24h @ 60±3°C followed by; Immerse 24h @ 24±3°C	ASTM D 2939 Section 15 Method A	Pass
**Resistance to deterioration in contacting soil Unsterilized Soil; No. 6 Seive;		
- Weight Loss (%)	ASTM E 154 Section 13	0.2 (reqd. ≤ 10)
- Water Vapor Permeance (Perm)	ASTM E 96 Procedure A	0.1 (reqd. ≤ 1)
- Hydrostatic Pressure over cracks l (ft of water)	ASTM C 1306	52 (report 50% of lowest value)
*Chemical resistance		ACID GROUNDS, SULFATES, WATER, CHLORIDES

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