



The Chemical Company

SONOSHIELD® SONOGUARD

Waterproof coating system for vehicular and pedestrian traffic areas

DESCRIPTION

SONOSHIELD SONOGUARD is a liquid applied moisture-cure polyurethane seamless waterproofing membrane system with an integral aggregate surface. SONOGUARD's tough, continuously elastomeric properties achieve long term protection against water ingress. High skid resistance with alaphatic top coat ensures long life and suitability for public locations.

COMPLIANCES

- AS/NZS 3661.1 Slip Resistance
- ASTM C957
- UL 790 Class A Fire Rating
- ASTM E108
- ASTM E84

RECOMMENDED FOR

Waterproofing exterior surfaces subject to light vehicle and pedestrian traffic loads. Skid resistant textures are incorporated for safety as required. Substrates include concrete, cement fibre sheet, plywood and incidental metal on car park decks.

Provides durable attractive membrane to:-

Balconies, plaza decks, apartment rooftops, plant rooms, overcoat old membranes and copings.

FEATURES AND BENEFITS

- **Waterproof**
Protects concrete from freeze-thaw damage
Protects occupied areas below from water damage
- **Protects from chloride and salt intrusion**
Extends life of reinforcing steel
- **Skid resistant**
Increased pedestrian safety
- **Systems available**
Ideal for various pedestrian and vehicular traffic situations.
- **Seamless membrane and crack bridging**
No joints to cause leaks
- **Repairable and recoatable**
Extends the life of the system
- **Top coat UV resistant**
Exceptional weathering
- **Range of top coat colours available**
Attractive, decorative appearance
- **VOC Content-** SONOGUARD base coat, self-levelling grade: 196 g/L of VOC less water and exempt solvents. SONOGUARD top coat, 209 g/L of VOC, less water and exempt solvents.
Environmentally responsible

PERFORMANCE DATA

Properties of cured membrane

Property	Base Coat	Top Coat	Test Method
Hardness, Shore A	60	89	ASTM D 2240

Tensile strength MPa	5.2	17.2	ASTM D 412
Elongation, %	595	502	ASTM D 412
Tear strength, PIT	74	199	ASTM D 1004
Weight loss, %	16	17	Max 40

Weathering Resistance and Elongation Recovery (ASTM C957)

		Requirement
Elongation Recovery	System 94%	Min 90
Tensile Retention	System 151%	Min 80
Elongation Retention	System 94%	Min 90
Abrasion resistance, mg lost	1 – (System passes) Requirements- Max: 50	(CS17 wheel) 1,000 g/1000 cycles)
Crack bridging	System passes	1000 cycles

Skid Resistance

When applied in Top Coat Film with total coverage rate not exceeding 0.7 litres per metre square per coat.

Aggregate must be **SONOGUARD Aggregate** at 0.5kg/m².

Slip Resistance	Wet – Coefficient	0.74
Slip Resistance	Dry – Coefficient	1.05

Test Method: AS/NZS 3661.1 and Compliance requirement is 0.40 minimum.

Chemical Resistance (ASTM C 957)

Chemical	Base Coat	Top Coat	Requirements
Ethylene glycol	88	92	Min 70
Mineral spirits	47	60	Min 45
Water	96	83	Min 70

SPECIFICATIONS

	Base Coat	Top Coat
Supply form	Liquid single pack	
Colour	Standard (Grey) or Tint	
Application	Temperature >5°C	
Specific gravity	1.19	1.09
Nonvolatiles,% (Solids by weight) ASTM D 1259	84	77
Viscosity, cps ASTM D 2393	4000-9000	2000-4000
Flash point ASTM D 56 (°C)	40	40.5



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APPLICATION

For information on surface preparation, priming, methods of application etc, refer to "Application Guide for SONOSHIELD SONOGUARD" available from your local BASF Construction Chemicals representative. Systems available:

1. ROOF TOP SYSTEM (OCCUPIED SPACE UNDER)

- Primer **MASTERTOP 1090** 6-8m² litre
- **SONOGUARD Base Coat** 1.2litres/ m²
- **SONOGUARD Top Coat** 0.65litres/ m²
- **SONOGUARD Aggregate** – 1-2kg/ m²
DFT 1.8mm+

2. LIGHT TRAFFIC SYSTEM

- Primer **MASTERTOP 1090** 6-8m² litre
- **SONOGUARD Base Coat** 0.7litres/ m²
- **SONOGUARD Top Coat** 0.65litres/ m²
- **SONOGUARD Aggregate** – 2-3kg/ m²
DFT 2.0mm

Do not start until you refer to application guide for installation instructions. For heavy duty traffic applications refer to the relevant CONIDECK system or contact your local BASF Technical Representative.

CURING

Allow curing time of 72 hours before vehicular use and 48 hours before pedestrian use. Extend the curing time in cool weather conditions, by a substantial period.

MAINTENANCE AND RECOAT APPLICATIONS

Refer to "Application Guide for SONOSHIELD SONOGUARD" available from your local BASF Construction Chemicals representative.

PACKAGING

SONOGUARD Base Coat and **Top Coat** are available in 18.93 litre units.

SONOGUARD Aggregate is available in 20kg bags. Colour packs are available in 236.5ml cans

COLOURS (TOP COAT)

Pre-tinted Top Coat Grey and colours by **NP2/SL2** pigment pack addition to **Top Coat Tint Base**. Check with your local BASF Construction Chemicals technical representative regarding current colours available.

SHELF LIFE

Shelf life is 18 months on all components.

PRECAUTIONS

Keep away from heat, flame and sources of ignition. Keep container closed. Use only with adequate ventilation. Empty container may contain explosive vapours or product residues. DO NOT cut or weld on or near empty container. DO NOT reuse empty container without commercial cleaning or recondition. Avoid contact with skin, eyes and clothing. Avoid breathing vapours. Wash thoroughly after handling. Avoid prolonged or repeated skin contact or breathing vapours. DO NOT take internally. Use impervious gloves, goggles and if use is performed in a poorly ventilated area, use approved respiratory protection in accordance with applicable federal, state and local regulations.

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Construction Chemicals **Material Safety Data Sheet (MSDS)** from our office or our website.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF**, are responsible for carrying out procedures appropriate to a specific application.

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