



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 aliphatic top coat ensures long life and suitability for car park decks.

## COMPLIANCES

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

## FIELDS OF APPLICATION

Waterproofing exterior surfaces subject to 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, shopping centre car parks, 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 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
- **VOC compliant**  
Environmentally responsible

## TYPICAL 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 L per metre square per coat.

Aggregate must be **SONOGUARD** Aggregate at 0.5kg/m<sup>2</sup>.

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

## PROPERTIES

Supply form : Liquid single pack  
Colour : Standard (Grey) or Tint  
Application Temperature : >5°C

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	Base Coat	Top Coat
Specific gravity	1.19	1.09
Non-volatiles,% (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

## APPLICATION DIRECTIONS

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 P 679 0.05-0.1 kg/m<sup>2</sup>
  - **SONOGUARD** Base Coat 1.2 L/m<sup>2</sup>
  - **SONOGUARD** Top Coat 0.5-0.65 L/m<sup>2</sup>
  - **SONOGUARD** Aggregate 1-2kg/m<sup>2</sup>  
DFT approx. 1.8mm+
2. LIGHT TO MEDIUM TRAFFIC SYSTEM
  - Primer MASTERTOP P 601 0.2-0.4kg/m<sup>2</sup>
  - **SONOGUARD** Base Coat 0.7 L/m<sup>2</sup>
  - **SONOGUARD** Top Coat 0.5-0.65 L/m<sup>2</sup>
  - **SONOGUARD** Aggregate 2-3kg/m<sup>2</sup>  
DFT approx. 2.0mm
3. HEAVY DUTY TRAFFIC SYSTEM
  - Primer MASTERTOP P 601 0.2-0.4kg/m<sup>2</sup>
  - **SONOGUARD** Base Coat 1.0 L/m<sup>2</sup>
  - **SONOGUARD** Top Coat 0.5-1.0 L/m<sup>2</sup>
  - **SONOGUARD** Aggregate 2-4kg/m<sup>2</sup> (to refusal)  
DFT approx. 2.4mm

## 4. EXTRA HEAVY DUTY TRAFFIC SYSTEM

- Primer MASTERTOP P 601 0.2-0.4kg/m<sup>2</sup>
- **SONOGUARD** Base Coat 1.0 L/m<sup>2</sup>
- **SONOGUARD** Top Coat 0.5-1.2 L/m<sup>2</sup>
- **SONOGUARD** Aggregate 2-4kg/m<sup>2</sup> (to refusal)  
DFT approx. 3.0mm

**DO NOT START UNTIL YOU REFER TO APPLICATION GUIDE FOR INSTALLATION INSTRUCTIONS**

## 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 Slope/Flash Base Coat and Top Coat is available in 18.93 L units.

**SONOGUARD** Aggregate is available in 20kg bags.

## SHELF LIFE

**SONOSHIELD SONOGUARD** can be stored for 18 months in tightly sealed original packaging if stored in a dry, well-enclosed area at moderate temperature.

## PRECAUTIONS

Keep out of reach of children. Keep away from heat, flame and sources of ignition. Keep container closed.

For detailed Health, Safety and Environmental Recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

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### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** 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.

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