

SONOBLOCK™

Cementitious waterproof coating for vertical and overhead masonry surfaces

PRODUCT DATA

7 07160

**Cementitious
Waterproofing**

Description

Sonoblock™ is a two-component, Portland-cement-based waterproof coating. It protects building interiors from moisture damage and allows interior moisture to escape without damaging the coating.

Yield

First coat:

225 – 250 ft²/bag (20.9 – 23.2 m²/bag)

Second coat:

300 – 350 ft²/bag (27.8 – 32.5 m²/bag)

Coverage may vary with texture and porosity of the substrate. For high hydrostatic pressure, increase quantity used per ft² (m²).

Packaging

Sonoblock™:

50 lb (22.68 kg) pails and bags

Acrylic Additive:

1 gallon (3.78 L) pails

5 gallon (18.93 L) pails

NOTE: Order 1 gallon Acrylic Additive for every 4 bags of Sonoblock™ used in the gauging liquid.

Color

Natural gray and white

Shelf Life

1 year when properly stored

Storage

Store in unopened containers in a cool, clean, dry area. Do not allow Acrylic Additive to freeze in the container; do not store below 35° F (2° C).

Features

- Breathable
- Waterproof
- Resistant to positive and negative hydrostatic pressure
- Compatible with Sonneborn® high-performance coatings

Where to Use

APPLICATION

- Basement and retaining walls
- Foundations

LOCATION

- Interior and exterior
- Above and below grade

SUBSTRATE

- Cast-in-place and precast concrete
- Block, brick, and absorbent stone

Benefits

- Allows moisture vapor to escape without damaging coating
- Protects building interiors from moisture damage
- Will not "blow off" exposed side of wall
- Accepts a wide range of architectural coatings and textured finishes

How to Apply

Surface Preparation

1. Surface preparation is extremely important for proper adhesion. Be sure that substrates are sound, fully cured, free of dust, dirt, laitance, paints, oils, grease, curing compounds, or any other contaminants.
2. Repair all holes and cracks before installation.
3. Relieve hydrostatic pressure in concrete block with weep holes.
4. Extremely smooth surfaces such as precast and cast-in-place concrete will require roughening or brush blast to ensure good adhesion of Sonoblock™.

Sonneborn®

Technical Data

Composition

Sonoblock™ is a two-component Portland-cement-based coating.

Test Data

PROPERTY	RESULTS	TEST METHODS
Compressive strength, psi (MPa)		ASTM C 109
7 days	4,000 (27.6)	
28 days	6,000 (41.4)	
Flexural strength, psi (MPa)		ASTM C 348
7 days	600 (4.1)	
28 days	750 (5.2)	
Tensile strength, psi (MPa)		ASTM C 190
7 days	300 (2.1)	
28 days	350 (2.4)	
Tensile adhesion, psi (MPa)	> 100 (7.7)	ASTM D 4541
Hydrostatic-pressure resistance, ft head	200 (positive) 100 (negative)	DIN 1048

Test results are averages obtained under laboratory conditions. Reasonable variations can be expected.

Mixing

FIRST COAT

1. In a clean, dry container, add 50 lbs (22.68 kg) of Sonoblock™ to approximately 4-3/4 – 5 quarts (4.5 – 4.7 L) of premixed liquid consisting of 3 parts potable water and 1 part Acrylic Additive. See Form No. 1017940 for more information.
2. Mix thoroughly to a smooth batter consistency using a slow-speed drill and mixing paddle. Do not overmix; avoid whipping air into the mixture. Allow to slake 3 – 5 minutes and remix before applying.

SECOND COAT

1. Proceed as described above, using 4-3/4 – 5 quarts (4.5 – 4.7 L) of gauging liquid.
2. If no additional coating is to be applied, the finish coat must be white Sonoblock™.

Application

1. Apply Sonoblock™ with a Tampico fiber brush or equivalent pushbroom. For spray application, use a hopper type texture sprayer and backbrush.
2. The substrate MUST be completely dampened before application begins. Use a low-pressure sprayer or garden hose. Do not saturate the substrate, but keep it cool and damp for the entire application.
3. Working time is 30 – 60 minutes at 70° F (21° C) and 50% relative humidity. At higher temperatures and humidity pot life can be significantly less.
4. It is essential that the first coat be thoroughly worked into the substrate to completely fill and cover all voids, holes, and nonmoving cracks. Finish with a horizontal stroke for an even coat.
5. Allow to cure 24 hours, then apply the second coat and finish with a vertical stroke.
6. Above grade, the second coat must be white Sonoblock™ or an appropriate Sonneborn® decorative coating.

Clean Up

Promptly clean hands and all tools with warm water while product is still wet. Cured material may only be removed mechanically.

For Best Performance

- Natural gray Sonoblock™ is not intended as a decorative finish, and should be coated with an appropriate topcoat.
- Do not apply in rain or when rain is expected within 24 hours.
- Do not apply above 90° F (32° C) or below 40° F (4° C) or when freezing conditions are expected for the next 24 hours. For hot and cold temperature applications, store Sonoblock™, Acrylic Additive, and water at 50 – 70° F (10 – 21° C) before use.
- Do not apply to substrates with active water leaks or moving cracks; patch all leaking static cracks and holes with Sonoplug™. Repair any other nonmoving cracks or voids with the appropriate Sonocrete® repair product and repair all moving cracks or voids with the appropriate Sonolastic® repair product.
- Not intended as a wearing surface.
- Maintain or place expansion and control joints as necessary.
- Windy, dry, or hot conditions may require rewetting of Sonoblock™ and the use of polyethylene barriers during cure.

- Allow 10 – 14 days cure time (depending on weather conditions) prior to immersion in water.
- Before specifying Sonoblock™ for water-retaining structures, conduct tests to determine water quality. Sonoblock™ is not intended for continuous contact with acid or sulfate-containing water. Very soft water will have an adverse effect on Sonoblock™.
- Make certain the most current versions of product data sheet and MSDS are being used; call Customer Service (1-800-433-9517) to verify the most current versions.
- Proper application is the responsibility of the user. Field visits by Degussa personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

Health and Safety

SONOBLOCK™

Caution

Sonoblock™ contains Portland cement and silicon dioxide.

Risks

May cause eye, skin or respiratory irritation. Product is alkaline on contact with water and may cause injury to skin or eyes. Ingestion or inhalation of dust may cause irritation. Contains free respirable quartz which has been listed as a suspected human carcinogen by NTP and IARC. Repeated or prolonged overexposure to free respirable quartz may cause silicosis or other serious and delayed lung injury.

Precautions

KEEP OUT OF THE REACH OF CHILDREN. Prevent contact with skin and eyes. Prevent inhalation of dust. DO NOT take internally. Use only with adequate ventilation. Use impervious gloves, eye protection and if the TLV is exceeded or used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable federal, state and local regulations.

First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. SEEK IMMEDIATE MEDICAL ATTENTION. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs, or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

Refer to Material Safety Data Sheet (MSDS) for further information.

Proposition 65

This product contains material listed by the state of California as known to cause cancer, birth defects, or other reproductive harm.

VOC Content

0 lbs/gal or 0 g/L.

**For medical emergencies only,
call ChemTrec (1-800-424-9300).**