



The Chemical Company

SONOMERIC[®] 1

Self-leveling polyurethane sealant for chemical and industrial environments

Description of Product

A single component, pouring grade, polyurethane sealant that has excellent resistance to abrasion, chemicals attack and industrial environments and capable of accommodating movement up to $\pm 25\%$ movement.

Where to Use SONOMERIC 1

- Concrete
- Airport runways
- Highways and bridges
- Industrial floors
- Driveways and loading docks
- Stadiums

Features

- Weather-resistant
- Jet-fuel resistant
- Exceptional elongation
- No mixing
- No priming on most applications

Benefits

- Long-term performance
- Withstands chemical attack
- Tolerates joint movement
- Use directly from container

Packaging

SONOMERIC 1 is available in 5 gallon pails (18.93ltr); approximate weight is 50lbs (22.5kg).

Colours

SONOMERIC 1 is available in black.

Standards

- ASTM C 920, Type S, Grade P, Use T, M, Class 25
- Federal Specification TT-S-00230C, Type I, Class A
- Corps of Engineers CRD-C-541, Type I, Class A
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Typical Properties

Property	Value Method	Test
Shore A hardness:	35	ASTM C 661
100% modulus, psi (MPa):	59 (0.3)	ASTM D 412
Ultimate tensile strength, psi (MPa):	200 (1.4)	ASTM D 412
Ultimate elongation, %:	1,000	ASTM D 412
Viscosity (poise):	200	Brookfield
Service temperature range °F (°C):		-40 to 180 (-40 to 82)

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

For Best Performance

- Protect SONOMERIC 1 from traffic until fully cured
- Do not use on surfaces having a high crown or marked degree of slope
- Do not paint SONOMERIC 1
- Do not apply over asphalt dampproofing or asphalt-impregnated joint fillers.
- Do not allow SONOMERIC 1 to come into contact with uncured silicone sealants
- When subject to periodic water immersion, prime joints with PRIMER 733
- Do not apply sealant if bed beneath deck or substrate has become saturated with water
- Do not allow SONOMERIC 1 to come into contact with alcohol-based material or solvents
- When used on steel, surfaces must be cleaned to bright metal and primed with PRIMER 733



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Directions of Use Joint preparation:

- The number of joints and the joint width should be designed for a maximum of $\pm 25\%$ movement.
- The depth of the sealant should be 1/2 the width of the joint. The maximum depth is 1/2" (13mm) and the minimum is 1/4" (6mm).
- In deep joints, the sealant depth must be controlled by closed-cell Backer-Rod or Soft Backer-Rod. (Refer to Form Nos. 1017927 and 1017923.). Where the joint depth does not permit the use of Backer-Rod, a bondbreaker (polyethylene strip) must be used to prevent three-point bonding.
- To maintain the recommended sealant depth, install Backer-Rod by compressing and rolling it into the joint channel without stretching it lengthwise. Closed-cell Backer-Rod should be about 1/8" (3mm) larger in diameter than the width of the joint to allow for compression. Soft Backer-Rod should be approximately 25% larger in diameter than the joint width. The sealant does not adhere to it, and no separate bondbreaker is required. Do not prime or puncture the Backer-Rod.

Surface Preparation:

- Joint faces must be structurally sound, fully cured, clean, dry and free of all loose aggregate, paint, oil, grease, wax, mastic compounds, waterproofing compounds, form release agents, and other contamination.
- **New concrete:** Remove all loose material by wire brushing. Sandblast surfaces that have been in contact with form release agents. Fresh concrete must be fully cured at least 28 days. Laitance must be removed by abrading.
- **Old concrete previously caulked:** Remove all old joint sealing material by mechanical means. If joint sides have absorbed oils, sufficient concrete must be cut away to ensure clean surface.

Priming:

- Prime steel in contact with SONOMERIC 1 with PRIMER 733 after cleaning to bright metal.
- Where water immersion may occur, prime with PRIMER 733 (refer to Form No. 1017962).
- Apply primer in a thin, uniform film; avoid build up of excess primer.
- Allow approximately 15 minutes to 20 minutes drying time before applying sealant.

Application:

- SONOMERIC 1 can be poured from a can or applied by gun. Fill joint from bottom to prevent formation of air voids.
- Avoid application at extremely low temperatures to prevent moisture condensation and excessive thickening of the sealant.

Clean up:

Immediately after use, wash tools with xylene or REDUCER 990.

Shelf Life

Shelf life is 6 months when stored in unopened containers under normal conditions. Storing at elevated temperatures will reduce shelf life.

Coverage

Joint Depth	Linear feet per gallon						
	Joint width						
	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
1/4"	308	205	154	122			
3/8"				82	68	58	51
1/2"					51	44	38

Joint Depth (mm)	Linear meters per ltr						
	Joint width						
	6	10	13	16	19	22	25
6	24.77	16.49	12.39	9.81			
10				6.59	5.47	4.66	4.10
13					4.10	3.54	3.06



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Warning

SONOMERIC 1 contains calcium oxide, talc, light aromatic naphtha, trimethyl benzene, mineral spirits, asphalt, toluene diisocyanate and silicon dioxide

Risk

Combustible liquid and vapour. May cause skin and eye irritation. May cause dermatitis and allergic responses. Potential skin and/or respiratory sensitiser. Inhalation of vapours may cause irritation and intoxication with headaches, dizziness and nausea. Ingestion may cause irritation. Reports associate repeated or prolonged occupational over-exposure to solvents with permanent brain, nervous system, liver and kidney damage.

INTENTIONAL MISUSE BY DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL

Precautions

KEEP OUT OF THE REACH OF CHILDREN. KEEP AWAY FROM HEAT, FLAME AND SOURCES OF IGNITION.

Use only with adequate ventilation. Keep container closed. Prevent contact with skin, eyes and clothing. Wash thoroughly after handling. Avoid breathing vapours. Use impervious gloves, goggles and if the TLV is exceeded, or if used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable federal, state and local regulations. DO NOT cut or weld on or near empty container. Empty container may contain explosive vapours or hazardous residues. All label warnings must be observed until container is commercially cleaned or re-conditioned.

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. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION. If vomiting occurs, keep the victim's head below hips to avoid aspiration of vomitus into victim's lungs. Refer to material safety data sheet for further information.

VOC Content

This product contains 128gm/ltr or 1.07lbs/gallon less water and exempt solvents.

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information, contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

Quality Statement

All products manufactured by BASF Egypt, or imported from BASF affiliate companies worldwide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2000, ISO 14001:2004 & OHSAS 18001:1999 standards.

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* Properties listed are only for guidance and are not a guarantee of performance.

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