

## PRODUCT DATA

7 07 92 00 **Joint  
Sealants****SONOMERIC® 1****Self-leveling polyurethane sealant for  
chemical and industrial environments****Description**

Sonomeric® 1 is a ready-to-use self-leveling polyurethane sealant for horizontal joints in chemical and industrial environments. It is weather, chemical, and jet-fuel resistant and has exceptional elongation.

**Yield**

See page 3 for charts.

**Packaging**

5 gallon pails (18.93 L); weighing approximately 50 lbs (22.5 kg)

**Color**

Black

**Shelf Life**

12 months when properly stored.

**Storage**

Store in unopened containers in a cool, dry area out of direct sunlight. Storing at elevated temperatures will reduce shelf life.

**Features**

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

**Benefits**

- Provides long-term performance
- Withstands chemical attack
- Tolerates joints movement
- Use directly from container
- Easy to apply; speeds jobsite production

**Where to Use**

## APPLICATION

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

## LOCATION

- Horizontal
- Exterior or interior
- Above grade

## SUBSTRATE

- Concrete

**How to Apply****Joint Preparation**

1. The number of joints and the joint width should be designed for a maximum of  $\pm 25\%$  movement.
2. The depth of the sealant should be  $1/2$  the width of the joint. The maximum depth is  $1/2$ " (13 mm) and the minimum is  $1/4$ " (6 mm). Maximum recommended joint width is  $1-1/2$ " (38 mm).
3. In deep joints, control the sealant depth by installing Closed-Cell Backer-Rod or Soft Backer-Rod (see Form No. 1026342).
4. Where the joint depth does not permit the use of backer-rod, use a bondbreaker (polyethylene strip) to prevent three-sided adhesion.
5. 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  $1/8$ " (3 mm) 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.

## Technical Data

### Composition

Sonomeric® 1 is an asphalt-modified one-component moisture-curing polyurethane

### Compliances

- 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

### Typical Properties

PROPERTY	VALUE
<b>Service temperature range,</b> ° F (° C)	-40 to 180 (-40 to 82)

### Test Data

PROPERTY	RESULTS	TEST METHODS
<b>Hardness, Shore A</b>	28	ASTM C 661
<b>100% modulus, psi (MPa)</b>	39 (0.24)	ASTM D 412
<b>Ultimate tensile strength, psi (MPa)</b>	240 (1.7)	ASTM D 412
<b>Ultimate elongation, %</b>	1,200	ASTM D 412
<b>Viscosity, poise</b>	200	Brookfield

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

### Surface Preparation

Joint faces must be structurally sound, fully cured, clean, dry, and free of all loose aggregate, paint, oil, grease, wax, mastic compounds, water-proofing 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, cut away sufficient concrete to ensure clean surface.

### Priming

1. Prime steel in contact with Sonomeric® 1 with Primer 733 (see Form No. 1017962) after cleaning to bright metal.
2. Where water immersion may occur, prime joint faces with Primer 733.
3. Apply primer in a thin, uniform film; avoid buildup of excess primer.
4. Allow approximately 15 – 20 minutes drying time before applying sealant.

### Application

1. Sonomeric® 1 can be poured from a can or applied by gun.
2. Fill joint from bottom to prevent formation of air voids.
3. 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.

### 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 sealant or with uncured Sonolastic® 150 or 150 Tint Base.
- When subject to periodic water immersion, prime joints with Primer 733 (see Form No. 1017962).
- 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 (see Form No. 1017962).
- 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 BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

**Yield**

LINEAR FEET PER GALLON

JOINT DEPTH (INCHES)	JOINT WIDTH (INCHES)						
	1/4	3/8	1/2	5/8	3/4	7/8	1
<b>1/4</b>		308	205	154	122	–	–
<b>3/8</b>		–	–	82	68	58	51
<b>1/2</b> 38		–	–	–	–	51	44

METERS PER LITER

JOINT DEPTH (MM)	JOINT WIDTH (MM)						
	6	10	13	16	19	22	25
<b>6</b>	24.77	16.49	12.39	9.81	–	–	–
<b>10</b>	–	–	–	6.59	5.47	4.66	4.10
<b>13</b>	–	–	–	–	4.10	3.54	3.06

**Health and Safety**

SONOMERIC® 1

**Warning**

Sonomeric® 1 contains Stoddard solvent, Petroleum distillates, hydrotreated heavy naphthenic solvent, naphtha petroleum, light aromatic and 1, 2, 4, trimethyl-benzene.

**Risks**

Combustible liquid and vapor. May cause skin and eye irritation. May cause dermatitis and allergic responses. Potential skin and/or respiratory sensitizer. Inhalation of vapors may cause irritation and intoxication with headaches, dizziness and nausea. Ingestion may cause irritation. Reports associate repeated or prolonged occupational overexposure 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 vapors. 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 vapors or hazardous residues. All label warnings must be observed until container is commercially cleaned or reconditioned.

**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 (MSDS) for further information.

**Proposition 65**

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

**VOC Content**

1.07 lbs/gal or 128 g/L, less water and exempt solvents.

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

**BASF Construction Chemicals, LLC –  
Building Systems**

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[www.BuildingSystems.BASF.com](http://www.BuildingSystems.BASF.com)

**Customer Service** 800-433-9517  
**Technical Service** 800-243-6739



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