

# SONOLASTIC® SONOMERIC 1

Self-levelling polyurethane joint sealant for chemical and industrial applications

## DESCRIPTION

**SONOLASTIC SONOMERIC 1** is a one-part self-levelling polyurethane sealant for horizontal joints in chemical and industrial environments.

**SONOLASTIC SONOMERIC 1** compliances:

- ASTM C 920, Type S, Grade P, Use T, M, Class 25
- Federal Specifications TT-S-00230C, Type 1, Class A
- Corps of Engineers CRD-C-541, Type I, Class A

## RECOMMENDED FOR

Active horizontal exterior joints exposed to chemical attack. Including airport runways and hangers, chemical bunds, industrial service roads and infrastructure. Substrates including concrete.

## FEATURES AND BENEFITS

- **Weather resistant**  
Long performance.
- **Jet-fuel resistant**  
Withstands chemical attack.
- **Exceptional elongation**  
Tolerates joint movement.
- **No mixing**  
Use directly from container.
- **No priming on most applications**  
Easy to apply.

## PERFORMANCE DATA

Property	Test Method	Value (Average)
Movement capability (MAF)	ASTM C 719	±25%
Tensile strength	ASTM D 412	1.7 MPa
Ultimate elongation	ASTM D 412	1200%
Hardness at standard conditions (Shore A)	ASTM C 661	28
100% modulus	ASTM D 412	0.24 MPa
Viscosity	Brockfield	200 poise

## APPLICATION DIRECTIONS

### Surface Preparation

Joint faces must be structurally sound, clean, dry, and free of all loose aggregate, paint, oil, grease, wax, waterproofing compounds and form release agents, bond breaking compounds and other contamination.

*New concrete* – Remove all loose material by wire brushing. 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.

### Joint Design

1. The number of joints and the joint width should be designed for a maximum of ±25% movement.
2. In joints up to 12mm in width, ratio of width to depth is 1-1. In joints exceeding 12mm in width, ratio of width to depth is 2-1.
3. In deep joints, the sealant depth must be controlled by **Closed Cell Backer-Rod** or **Soft Backer-Rod**. Where the joint depth does not permit the use of backer-rod, a bond-breaker (polyethylene strip) must be used to prevent three-point bonding.
4. To maintain the recommended sealant depth, install backer-rod by compressing and rolling it into the channel without stretching it lengthwise. **Closed Cell Backer-Rod** should be about 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 Backer-rod becomes an integral part of the joint. The sealant does not adhere to it, and no separate bond-breaker is required. Do not prime or puncture the backer-rod.

### Priming

1. Prime steel in contact with **SONOLASTIC SONOMERIC 1 with Primer 733** after cleaning to bright metal.
2. Where water immersion may occur, prime with **Primer 733**.
3. Apply primer in a thin, uniform coat by brush.
4. Allow approximately 15 minutes to 120 minutes drying time before applying sealant.

### Placing

1. **SONOLASTIC 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.

## CURING

A 6 x 6mm bead is tack free in 2-4 hours and cured through in 96 hours, depending on temperature and humidity.

## CLEANING

Immediately after use, wash tools with **Thinner No. 1**.

## ESTIMATING DATA

Joint size (mm)	Metres per litre
5 x 5	40
10 x 10	10
12 x 12	6.95
15 x 7.5	8.88
20 x 10	5.00
25 x 12.5	3.20
30 x 15	2.22



The Chemical Company

# SONOLASTIC® SONOMERIC 1

## PACKAGING

18.9 litre pails, approximate weight: 20.412 kg. The colour is black. Shelf life is 18 months when stored in a dry place in unopened containers at temperatures between 4°C and 37°C. During storage an easily removed skin may form which does not affect use or performance of product.

## FOR BEST PERFORMANCE

- Do Protect **SONOLASTIC SONOMERIC 1** from traffic until fully cured.
- Do not use on surfaces having a high crown or marked degree of slope.
- Do not apply over asphalt damp proofing or asphalt-impregnated joint fillers.
- Do not paint **SONOLASTIC SONOMERIC 1**.
- When subject to periodic water immersion, prime joints with **Primer 733**.
- Do not allow **SONOLASTIC SONOMERIC 1** to come into contact with uncured silicone sealant, alcohol-based material or solvents.
- Do not apply sealant if bed beneath deck or substrate has become saturated with water.

## PRECAUTIONS

**KEEP OUT OF THE REACH OF CHILDREN. KEEP AWAY FROM HEAT, FLAME AND SOURCES OF IGNITION.** Use only with adequate ventilation. Keep containers closed. Prevent contact with skin, eyes, and clothing. Wash thoroughly after handling. Avoid breathing vapours. Use impervious gloves, goggles, and if used in a poorly ventilated area, use 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 warning must be observed until container is commercially cleaned or reconditioned.

In the 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 IMMEDIATE 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.

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 **Material Safety Data Sheet (MSDS)** from our office or our website

**ASonSmeric/8/1011**

## 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.

**BASF Australia Ltd**  
A.B.N. 62008437867  
Head Office: 11 Stanton Road Seven Hills, NSW 2147  
Ph. (02) 8811 4200

Newcastle	(02) 4961 3819
Canberra	(02) 6280 6010
Brisbane	(07) 3633 9900
Townsville	(07) 4774 7344
Melbourne	(03) 9549 0300

Adelaide	(08) 8139 7500
Perth	(08) 9366 2600
Darwin	(08) 8984 3269
Kalgoorlie	0417 772 355

**BASF New Zealand Ltd**  
**BASF WEB SITES**

Head Office: 45 William Pickering Drive, Albany, Auckland Ph: (09) 414 7233  
www.basf-cc.com.au      www.basf-cc.co.nz      www.meyco.basf.com