



The Chemical Company

Distributed by: BEST MATERIALS LLC
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PRODUCT DATA

7 07 92 00 **Joint Sealants**

SONOLASTIC® CLEAR 25™

One-component, clear, elastomeric, gun-grade thermoplastic roofing sealant and tile adhesive

Description

Sonolastic® Clear 25™ is a one-component, clear, high-performance, non-priming, gun-grade, thermoplastic adhesive and sealant. It requires no mixing and bonds tenaciously to common roofing materials, including concrete and clay roof tiles, metal flashings and masonry.

Yield

A 1/2" round bead will yield approximately 7.7 linear feet per cartridge, less waste.

Packaging

300 mL (10.1 fl. oz.) cartridges, 24 cartridges per carton

Color

Clear

Shelf Life

1 year when properly stored

Storage

Store in original, unopened containers away from heat and direct sunshine. Storing at elevated temperatures will reduce the shelf life

Features

- Ready to use
- Superior holding power
- Joint movement capability 25% total
- Easy to gun and tool
- Available in cartridges
- Clear, non-yellowing formula
- Weather resistant
- Wide temperature-application range
- Compatible with non-rigid paints

Benefits

- Requires no mixing, reduces labor costs
- Longer-lasting tile installation
- Provides excellent flexibility for keeping moving joints tight
- Speeds application and makes neater joints
- Easy to use
- Blends with any color roof rile
- Produces long-lasting weather-tight seals
- Suitable for all climates
- May be painted

Where to Use

APPLICATION

- Between adjacent layers of roof rile
- Sealing edge and ridge tiles
- Penetration seals
- Flashings
- Skylight frames
- Termination bars and reglets
- Parapet expansion joints
- Lap seals in metal roof assemblies

LOCATION

- Residential
- Commercial
- Sheet roofing
- Liquid applied roofs
- Metal roofs
- Shingled and tiled roofs

SUBSTRATE

- Clay Tile
- Concrete
- Masonry
- Aluminum
- Wood
- Vinyl

How to Apply

Joint Preparation

1. When used as an expansion joint sealant, the number of joints and the joint width should be designed for a maximum of ±12.5% 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). Refer to Table 1.
3. When using as a roof tile adhesive, make sure surfaces are clean and dry.



Technical Data

Composition

Sonolastic® Clear 25™ is a one-component thermoplastic rubber.

Compliances

- ASTM C 920, Type S, Grade NS, Class 12.5, Use T, NT, M, A and O

PROPERTY	VALUE
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Typical Properties

Service temperature range, ° F (° C)	-40 to 180 (-40 to 82)
Shrinkage	None

Test Data

PROPERTY	RESULTS	TEST METHODS
Movement capability, %	+/- 12.5	ASTM C 719
Tensile strength, psi (MPa)	320 (2.2)	ASTM D 412
Ultimate elongation at break, %	560	ASTM D 412
Rheological, (sag in vertical displacement) at 120° F (49° C)	No sag	ASTM C 639
Hardness, Shore A At standard conditions	50	ASTM C 661
Weight loss, after heat aging, %	< 10	ASTM C 792
Cracking and chalking, after heat aging	None	ASTM C 792
Tack-free time, min	25 - 30	ASTM C 679
Stain and color change	No visible stain	ASTM C 510
Adhesion in peel*, pli	Passes	ASTM C 794
Artificial weathering, Xenon arc, 500 hours	No surface cracking	ASTM C 793

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

Surface Preparation

Surfaces must be structurally sound, fully cured, dry, clean, free of dirt, moisture, loose particles, oil, grease, asphalt, tar, paint, wax, rust, waterproofing or curing and parting compounds and membrane materials.

CONCRETE, STONE AND OTHER MASONRY

Clean by grinding, sandblasting, or wire brushing as necessary to expose a sound surface free of contamination and laitance.

WOOD

New and weathered wood must be clean and sound. Scrape away loose paint to bare wood. Any coating that cannot be removed must be tested to verify adhesion of sealant or to determine an appropriate primer

METAL

Remove scale, rust, and loose coatings to expose a clean, dry, sound surface. Coatings which cannot be removed should be tested for compatibility and adhesion. Remove any other protective coatings that may interfere with adhesion.

Application

1. Sonolastic® Clear 25 comes ready to use. Apply by professional caulking gun. Do not open cartridges until preparatory work has been completed.
2. Apply a bead of Sonolastic® Clear 25 sufficient to make a bond between the two tiles on the upper surface of the downslope tile.
3. Install the upslope tile and press into the bead of Sonolastic® Clear 25 to ensure good contact between the adhesive and both tiles.

Clean Up

1. Immediately after use, clean equipment with Reducer 990 or xylene. Use proper precautions when handling solvents.
2. Remove sealant from hands using soap and water. If sealant has cured, a hand cleaner with a mild abrasive, designed for such tasks, is recommended.
3. Remove cured sealant by cutting with a sharp-edged tool.
4. Remove thin films by abrading.

Curing

1. The cure Sonolastic® of Clear 25 varies with temperature and humidity. The following times assume 75° F (24° C), 50% relative humidity, and a joint 1/2" width by 1/4" depth (13 by 6 mm).
Skins: 25-30 minutes
Functional: 16-24 hours
Full cure: approximately 2 week

For Best Performance

- Protect unopened containers from heat and direct sunshine.
- In cool or cold weather, store container at room temperature for at least 24 hours before using.
- Do not apply over freshly treated wood; treated wood must have weathered for at least 6 months.
- Do not use as a cap, heel, or toe bead for exterior glazing. Refer to Sonolastic® 150 w/VLM Technology product data sheet (see Form No. 1017910).
- Sonolastic® Clear 25 can be applied below freezing temperatures only if substrates are completely dry, free of moisture, and clean. Contact Technical Service for more information.
- Lower temperatures and humidities will extend curing times.
- Sonolastic® Clear 25 can be painted over after 1-2 hours. When painting over any elastomeric sealant, use a paint that is also elastomeric. (If movement occurs, the paint will also move.)
- 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.

Health and Safety

Health and Safety

SONOLASTIC® CLEAR 25™

Warning

Sonolastic® Clear 25™ contains xylene, titanium dioxide, calcium carbonate, petroleum hydrocarbon (ethyl benzene) and silicon dioxide

Risks

Flammable liquid and vapor. May cause skin, eye and respiratory irritation. Ingestion may cause nausea and vomiting. Inhalation of vapors may cause irritation and intoxication with headaches and dizziness and nausea. 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, SPARKS, AND SOURCES OF IGNITION. Prevent contact with skin, eyes and clothing. Avoid breathing vapors. Keep container closed. Use only with adequate ventilation. DO NOT take internally. 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. Empty container may contain explosive vapors or hazardous residues.

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

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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

2.63 lbs/gal or 315 g/L, less water and exempt solvents.

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