



The Chemical Company

SONOLASTIC[®] 150

Low-modulus, high-movement, fast-curing sealant

Description

SONOLASTIC[®] 150 is a low-modulus, high-movement, fast-curing sealant. Based on silyl-terminated polyether (STPe) technology, SONOLASTIC[®] 150 combines the best qualities of polyurethane and silicone sealants. It can be used for sealing and weatherproofing a wide variety of building materials and as a substitute for silicone sealants.

Where to use SONOLASTIC[®] 150

- Wet glazing (cap bead)
- Glass
- Aluminum
- Concrete
- Masonry
- Wood
- Stone
- Curtain wall construction
- Expansion joints in walls
- EIFS
- Panel walls
- Precast units
- Aluminum and wood window frames
- Fascia
- Parapets
- Sanitary applications
- Interior and exterior

Features

- Low modulus
- Available in cartridges
- Easy to gun and tool
- Ten standard colors
- One component
- Weather resistant
- Wide temperature application range

- Compatible with non rigid paints
- Non-staining
- Does not support mildew growth
- Premium-grade high-performance one-part silyl-terminated non-sag elastomeric sealant

Benefits

- Extreme joint movement capability (+100 to -50)
- Excellent flexibility for keeping moving joints water tight
- Reduces job-site waste, lowers disposal costs
- Speeds application and makes neater joints
- Matches common substrates
- No mixing, less labor
- Long-lasting weathertight seals
- Suitable for all climates
- Paintable soon after installation
- May be used on stone and other sensitive substrates
- Low odour alternative for sanitary areas

Packaging

SONOLASTIC[®] 150 is available in 591 ml ProPak sausage cartridges, 20 sausages to a carton.

Colors

A complete line of standard colors is available, including white, off-white, limestone, stone, tan, aluminum gray, medium bronze, special bronze, redwood tan, and black.

For color availability in bulk packaging, call Customer Service.



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Standards

- Federal Specification TT-S-001543A, Type II, Class A, Type Non-sag
- Federal Specification TT-S-00230C, Type II, Class A
- ASTM C 920, Type S, Grade NS, Class 25, Use NT, M, A, G, and O
- Corps of Engineers CRD-C-541, Type II, Class A
- USDA approval for use in areas that handle meat and poultry

*Typical properties

Service temperature range	-40 to 104°C
Expected life	Up to 20 years
Shrinkage	None
Movement capability, ASTM C719	+100 to -50%
Tensile strength, ASTM D412	290 psi
Ultimate elongation at break ASTM D412	865%
Rheological (sag in vertical displacement) at 49°C, ASTM C639	No sag
Extrudability, ASTM C603	2-3 seconds
Hardness at std. conditions, ASTM C661	20
Weight loss after heat aging, ASTM C792	<10%
Tack-free time min. (maximum 72 hrs.), ASTM C679	60
Stain and color change, (no visible stain), ASTM C510	Passes
Bond durability* on glass, aluminum and concrete, +100 -50% movement, pli ASTM C719	Passes
Adhesion* in peel, pli, min, 5 pli, ASTM C794	Aluminum 36 Glass 37 Concrete 24
Adhesion in peel after UV radiation through glass, min. 5 pli, ASTM C794	25
Artificial weathering, Xenon arc, 2000 hours Atlas 6500	No Cracking

*Concrete primed with Primer 2000 for water immersion as indicated in ASTM C 920.

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

For best performance

- Do not use SONOLASTIC® 150 as a structural sealant.
- Protect unopened containers from heat and direct sunshine.
- In cool or cold weather, store cartridges at room temperature for at least 24 hours before using.
- SONOLASTIC® 150 should not be used for continuous immersion in water. Contact BASF Construction Chemicals UAE LLC, Technical Services for recommendations.
- Do not apply over freshly treated wood; treated wood must have weathered for at least 6 months.
- Lower temperatures will extend curing times.
- Some substrates require the use of Primer 2000. An adhesion test is recommended for any questionable substrate. Allow sealant to cure 10 - 14 days prior to testing.



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- SONOLASTIC[®] 150 should not come in contact with oil-based caulking, silicone sealants, polysulphides, or fillers impregnated with oil, asphalt, or tar.
- Storing at elevated temperatures will reduce shelf life.
- Make certain the most current version of this data guide is being used; call Customer Service (04-8090800) to verify the most current version.
- For proper sealing of joint edges, all window covers must be removed prior to application of sealant.
- Extreme and persistent high temperatures and/or humidity in certain environments may lower the service life of any sealant including SONOLASTIC[®] 150.
- SONOLASTIC[®] 150 can be painted over provided it is fully cured. When painting over any elastomeric sealant, use a paint that is also elastomeric. (If movement occurs, the paint will also move.) An alternative to painting is applying SONOLASTIC[®] 150 in one of its standard colors.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only, and are not to supervise or provide quality control on the job site.

Directions for use

Joint preparation:

The number of joints and the joint width should be designed for a maximum of $\pm 50\%$ movement. The depth of the sealant should be $1/2$ the width of the joint. The maximum depth is 13 mm and the minimum is 6 mm.

In deep joints, the sealant depth must be controlled by Closed Cell Backer-Rod or Soft Backer-Rod. (Refer to Form Nos. SJ-403 and SJ-405.)

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.

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 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. 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.

Surface preparation:

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

Concrete, stone, and other masonry

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

Wood

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



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Metal:

Remove scale, rust, and coatings from metal to expose a bright white surface. Remove protective coatings as well as any chemical residue or film. Aluminum window frames are frequently coated with a clear lacquer that must be removed before the application of SONOLASTIC[®] 150. Any coating that cannot be removed must be tested to verify adhesion of sealant or determine an appropriate primer. Remove any other protective coatings or finishes that could interfere with adhesion.

Priming:

SONOLASTIC[®] 150 is generally considered a non-priming sealant, but special circumstances or substrates (e.g., certain protective coatings on aluminum, vinyl, some masonry) may require a primer. It is the user's responsibility to check the adhesion of the cured sealant on typical test joints at the project site before and during application. Refer to Primer 2000 Technical Data Guide (Form No. SJ-320). Consult BASF Construction Chemicals UAE LLC, Technical Services for additional information.

Apply primer full strength with a brush or clean cloth. A light, uniform coating is sufficient for most surfaces. Porous surfaces require more primer; however, do not over-apply.

Allow primer to dry before applying SONOLASTIC[®] 150. Depending on temperature and humidity, primer will be tack free in 15 to 30 minutes. Priming and sealing must be done on the same work day.

Application:

SONOLASTIC[®] 150 comes ready to use. Apply by professional caulking gun. Do not open cartridges, sausages, or pails until preparatory work has been completed.

SONOLASTIC[®] 150 is not a structural sealant: Fill joints from the deepest point to the surface by holding a properly sized nozzle against the back of the joint.

Dry tooling is recommended. DO NOT use soapy water when tooling. Tooling results in the correct bead shape, a neat joint, and maximum adhesion.

Clean up

1. Immediately after use, clean equipment with SOLVENT NO. 2 or xylene. Use proper precautions when handling solvents.
2. Remove cured sealant by cutting with a sharp-edged tool.
3. Remove thin films by abrading.

Curing time:

The cure of SONOLASTIC[®] 150 varies with temperature and humidity. The following times assume 24°C, 50% relative humidity, and a joint 13 mm width by 6 mm depth. Skins within 1 hour. Functional within 1-3 days. Full cure in approximately 1 week.

Shelf life

Shelf life is 1 year when stored in unopened containers at 24°C and 50% relative humidity.

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Coverage

Metres per litre

joint width (mm)

Joint depth (mm)	6.4	9.5	12.7	15.9	19.0	22.2	25.4
6	24.8	16.5	12.4	9.8			
10				6.6	5.5	4.7	4.1
13					4.1	3.5	3.0

Caution

SONOLASTIC[®] 150 contains calcium carbonate, titanium dioxide. May also contain one or more of the following:

iron oxide, carbon black

Risks

May cause skin, eye and respiratory irritation. Ingestion may cause irritation.

Precautions

KEEP OUT OF THE REACH OF CHILDREN. Avoid contact with skin, eyes and clothing. Keep container closed when not in use. Use only with adequate ventilation. Wash thoroughly after handling. Avoid breathing vapors. DO NOT take internally. Use impervious gloves, eye protection and if the TLV is exceeded or product is 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.

VOC content

SONOLASTIC[®] 150 contains 2.07 g/L 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 and care

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

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* Properties listed are based on laboratory controlled tests.

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