

PRODUCT DATA

7 07 92 00 **Joint Sealants**

SONOLASTIC® 150 with VLM Technology

Very low-modulus, fast-curing, nonsag, elastomeric, silyl-terminated polyether sealant for EIFS

Description

Sonolastic® 150 with VLM Technology is a premium, very low-modulus, high-movement, nonsag, fast-curing, ready-to-use, silyl-terminated polyether sealant. It combines the best qualities of organic and silicone sealants. It accommodates extreme joint movement (+100 to -50%) to keep moving joints weathertight.

Yield

See page 3 for charts.

Packaging

300 ml (10.1 fl oz) cartridges, 30 cartridges per carton

20 oz (590 ml) ProPaks, 20 per carton

2 gallon (7.6 L) pails (special order)

Color

White, off-white, cameo, salt box, limestone, riverbend, tan, stone, aluminum gray, redwood tan, medium bronze, special bronze, and black.

Shelf Life

15 months when properly stored

Storage

Store in original, unopened containers in a cool, dry area. Protect unopened containers from heat and direct sunshine. Storing at elevated temperatures will reduce shelf life.

Features

- High flexibility
- Very low modulus
- Weather resistant
- Wide temperature application range
- Nonstaining
- Mildew resistant

- Ready-to-use 1 component

- Easy to gun and tool

- Fast curing

- Compatible with nonrigid paints

- Available in ProPaks

Benefits

Keeps moving joints weathertight

Accommodates extreme joint movement (+100 to -50%); seals EIFS joints with little stress on bond line

Provides long-lasting weathertight seals

Use in all climates

Use safely on stone and other sensitive substrates

Does not support mildew growth; offers low-odor alternative for sanitary areas

Reduces labor; speeds application

Speeds application; makes neater joints

Speeds jobsite production

May be painted soon after installation

Reduces jobsite waste; lowers disposal costs

Where to Use

APPLICATION

- For sealing a variety of building joints, particularly in EIFS, against water and air intrusion
- Joints with extreme movement
- In place of silicone sealants
- Wet glazing (cap bead)
- Curtain wall construction
- Expansion joints
- Panel walls
- Precast units
- Aluminum, vinyl, and wood window frames
- Fascia
- Parapets
- Sanitary applications

LOCATION

- Vertical or horizontal
- Exterior or interior
- Above grade

SUBSTRATE

- EIFS
- Stucco
- Aluminum
- Concrete
- Masonry
- Wood
- Stone
- Glass

How to Apply

Joint Preparation

1. Design the number of joints and the joint width for a maximum of ±50% 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.

Imported & Marketed in India by:

BASF India Limited (Construction Chemicals Division)

Plot No 37, Chandivali Farm Road, Chandivali, Andheri (E)

Mumbai - 72

Tel : 28580200 Fax: 28478381

e-mail: construction-india@basf.com

www.basf-cc.co.in

Technical Data

Composition

Sonolastic® 150 is a solvent-free formulation based on silyl-terminated polyether polymer (STPe).

Compliances

- ASTM C 920, Type S, Grade NS, Class 100/50, Use NT, M, A, G, and O
- Federal Specification TT-S-001543A, Type II, Class A, Type Nonsag
- Federal Specification TT-S-00230C, Type II, Class A
- Corps of Engineers CRD-C-541, Type II, Class A
- USDA compliant for use in areas that handle meat and poultry
- ASTM C 1382 for use with EIFS wall systems

Typical Properties

PROPERTY	VALUE
Service temperature range, ° F (° C)	-40 to 220 (-40 to 104)
Shrinkage	None

Test Data

PROPERTY	RESULTS	TEST METHODS
Movement capability, %	+100 to -50	ASTM C 719
100% modulus, psi (MPa)	35 (0.24)	ASTM D 412
Tensile strength, psi (MPa)	220 (1.5)	ASTM D 412
Tear strength, lb/in (kg/cm)	40 (7.1)	ASTM D 1004
Ultimate elongation at break, %	1,200	ASTM D 412
Rheological, (sag in vertical displacement), at 120° F (49° C)	No sag	ASTM C 639
Extrudability, sec	2 – 3	ASTM C 603
Hardness, Shore A, at standard conditions	17	ASTM C 661
Weight loss, after heat aging, %	< 10	ASTM C 792
Tack-free time, min (maximum 72 hours)	90	ASTM C 679
Stain and color change	Passes (no visible stain)	ASTM C 510
Bond durability,* pli on glass, aluminum, and concrete, +100 -50% movement	Passes	ASTM C 719
Adhesion* in peel, pli (kg/cm), (minimum 5 pli [0.89 kg/cm])		ASTM C 794
Aluminum	35 (6.2)	
Glass	33 (5.8)	
Concrete	36 (6.4)	
Adhesion in peel, pli (kg/cm), after UV radiation through glass, (minimum 5 pli [0.89 kg/cm])	33 (5.8)	ASTM C 794
Artificial weathering, Xenon arc, 2,000 hrs	No Cracking	ASTM G 26

*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.

3. In deep joints, control the sealant depth by installing Closed-Cell Backer-Rod or Soft Backer-Rod (see Form No. 1026342). Where the joint depth does not permit the use of backer-rod, use a bondbreaker (polyethylene strip) to prevent three-sided adhesion.

4. 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. Because the sealant does not adhere to the backer-rod, no separate bondbreaker is required. Do not prime or puncture the backer-rod.

TABLE 1

Joint Width and Sealant Depth

JOINT WIDTH, IN (MM)	SEALANT DEPTH AT MIDPOINT, IN (MM)
1/4 – 1/2 (6 – 13)	1/4 (6)
1/2 – 3/4 (13 – 19)	1/4 – 3/8 (6 – 10)
3/4 – 1 (19 – 25)	3/8 – 1/2 (10 – 13)
1 – 1-1/2 (25 – 38)	1/2 (13)

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, waterproofing or curing and parting compounds, and membrane materials.

EIFS

1. Sonolastic® 150 should be applied to the system base coat for best adhesion and to avoid delamination of EIFS finish applied in the joint.
2. Base coat must be sound, well bonded, properly cured and of sufficient depth to comply with manufacturer's specifications.

Yield

LINEAR FEET PER GALLON*

JOINT DEPTH (INCHES)	JOINT WIDTH (INCHES)						
	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

* One gallon equals approximately 12 cartridges or 6 ProPaks.

METERS PER LITER*

JOINT DEPTH (MM)	JOINT WIDTH (MM)						
	6	10	13	16	19	22	25
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

* One liter equals approximately 3.33 cartridges or 1.7 ProPaks.

CONCRETE, STONE, AND OTHER MASONRY

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

WOOD

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

GLASS

1. Remove all oil and grease with xylene.
2. Wipe clean and dry with a clean cloth until no solvent film or fingerprints remain.

METAL

1. Remove scale, rust, and coatings from metal to expose a bright white surface.
2. 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. Remove any other protective coatings or finishes that could interfere with adhesion.
3. Test any coating that cannot be removed to verify adhesion of sealant or to determine an appropriate primer.

Priming

1. Sonolastic® 150 is generally a nonpriming sealant, but special circumstances or substrates may require a primer.
 - Porous materials subject to intermittent water immersion require priming. Use Primer 2000.
 - Certain architectural metal finishes may require priming with Primer 733.
 - 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 the technical data guides for Primer 2000 (Form No. 1017963) and Primer 733 (Form No. 1017962).

2. Apply primer full strength with a brush or clean cloth. A light, uniform coating is sufficient for most surfaces. Very porous surfaces may require a second coat of Primer 2000; however, do not overapply.

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

Application

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

NOTE: Sonolastic® 150 is not a structural sealant.

2. Fill joints from the deepest point to the surface by holding a properly sized nozzle against the back of the joint.

3. Proper tooling ensures the correct bead configuration and a neat joint. Equally important, it ensures maximum adhesion to the sides of the joint. For best results, dry tool. DO NOT use water or soapy water to tool. Avoid overtooling of sealant.

4. Best practices dictate that all caulking and sealing be done when temperatures are above 40° F (4° C) to avoid application to moisture-laden surfaces. Moisture on substrates will adversely affect adhesion. Application may proceed as low as 20° F (-6° C) if there is certainty that substrates are completely dry, free of frost, and clean as described under Surface Preparation.

Clean Up

1. Immediately after use, clean equipment with Reducer 990 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 75° F (24° C), 50% relative humidity, and a joint 1/2" (13 mm) in width by 1/4" (6 mm) in depth.

Skins: within 1 hour

Functional: within 1 – 3 days

Full cure: approximately 1 week

For Best Performance

- In cool or cold weather, store container at room temperature for at least 24 hours before using.
- Do not use Sonolastic® 150 as a structural sealant.
- For proper sealing of joint edges, all window covers must be removed prior to application of sealant.
- Do not allow uncured Sonolastic® 150 to come into contact with alcohol-based materials or solvents.
- Do not allow Sonolastic® 150 to come into contact with oil-based caulking, silicone sealants, polysulfides, or fillers impregnated with oil, asphalt, or tar.
- Sonolastic® 150 should not be used for continuous immersion in water. Contact Technical Services for recommendations.
- When using Sonolastic® 150 in a traffic-bearing horizontal joint, use a firmer joint backing, such as neoprene rod or polyethylene foam block, and recess the surface of sealant 1/8 – 1/4" (3 – 6 mm).
- Do not apply over freshly treated wood; treated wood must have weathered for at least 6 months.
- Porous substrates may 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, depending on humidity.
- Do not use Primer 2000 on nonporous surfaces such as aluminum, steel, vinyl, or Kynar 500 based paints. Use Primer 733 on coated metals when testing dictates.
- Lower temperatures and humidity will extend curing times.

- Sonolastic® 150 can be painted over after a thin film or skin forms on the surface.
- 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 Tint Base in one of its standard colors.
- 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

SONOLASTIC® 150

Caution

Sonolastic® 150 contains calcium carbonate, titanium dioxide. May also contain one or more of the following: iron oxide, and 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.

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

0.02 lbs/gal or 2.07 g/L, less water and exempt solvents.

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

BASF Building Systems

889 Valley Park Drive
Shakopee, MN, 55379

www.BASFBUILDINGSYSTEMS.COM

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

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