



Material Safety Data Sheet

01-JAN-2003

SpecSeal® AS200 ELASTOMERIC SPRAY

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

PRODUCT NAMESpecSeal® AS200 SPRAY

CHEMICAL FAMILY.....Mixture

Company Identification

MANUFACTURER/DISTRIBUTOR

Specified Technologies, Inc.
200 Evans Way
Somerville, NJ 08876

PHONE NUMBERS

Product Information : 1-908-526-8000
Emergency : 1-800-255-3924

COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS NUMBER
Proprietary mixture	-----

HAZARDS IDENTIFICATION

*****EMERGENCY OVERVIEW*****

* Possible skin and eye irritant. Blue paste. *

Potential Health Effects:

EYE: Contact may cause irritation.

SKIN: Contact may cause irritation.

INGESTION: Relatively non-toxic.

INHALATION: Irritation of the nose, throat, and lungs may result from over-exposure to vapors or mist.

CHRONIC (CANCER) INFORMATION: Not classified as carcinogenic.

LONG TERM TOXIC EFFECTS: None known.

FIRST AID MEASURES

First Aid

INHALATION: Remove to fresh air.

SKIN CONTACT: Wash thoroughly.

EYE CONTACT: Irrigate eyes with running water for at least 15 minutes. Get medical attention if irritation develops.

INGESTION: None applicable.

FIRE FIGHTING MEASURES

Not a fire hazard.

EXTINGUISHING MEDIA:.....Dry Chemical; Carbon Dioxide; Foam; Water spray for large fires.

SPECIAL FIRE FIGHTING PROCEDURES:As for surrounding fire.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

HANDLING AND STORAGE

Store under ambient conditions. No special handling required.

EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION REQUIREMENTS:.....Safety glasses/goggles.

SKIN PROTECTION REQUIREMENTS:.....Gloves.

RESPIRATOR REQUIREMENTS:.....None.

VENTILATION REQUIREMENTS:.....If needed, use local exhaust ventilation to keep airborne concentrations below the TLV.

Exposure Guidelines

Exposure Limits

PEL(OSHA) : Particulates (Not Otherwise Classified) 15 mg/m3, 8 Hr. TWA, total dust 5 mg/m3, 8 Hr. TWA, respirable dust

TLV(ACGIH): None Established

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM Blue paste

SPECIFIC GRAVITY 1.1

PERCENT VOLATILES..... 22+/-2

EVAPORATION RATE..... >1

BOILING POINT 100 deg. C

SOLUBILITY IN WATER..... Infinitely dilutable

STABILITY AND REACTIVITY

STABILITY: This is a stable material.

CONDITIONS TO AVOID..... Storage >55 deg. C

HAZARDOUS POLYMERIZATION:..... Will not occur.

INCOMPATIBILITIES:.....None special.

TOXICOLOGICAL INFORMATION

Mixture not tested but based on components:

May be irritating to skin and eyes and may produce symptoms of nausea in poorly ventilated areas.

None of the components are listed as carcinogens.

ECOLOGICAL INFORMATION

No data.

DISPOSAL CONSIDERATIONS

Waste Disposal:

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

TRANSPORTATION INFORMATION

DOT – not regulated.

REGULATORY INFORMATION

U.S. Federal Regulations

TSCA Inventory Status : Reported/Included.

Section 313 Supplier Notifications.

This product contains no toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

OTHER INFORMATION

NPCA-HMIS Rating

Health : 1

Flammability : 0

Reactivity : 0

Personal Protection rating to be supplied by user depending on use conditions.

STATE RIGHT-TO-KNOW LAWS

No substances on the state hazardous substances list, for the states indicated below, are used in the manufacture of products on this Material Safety Data Sheet, with the exceptions indicated. While we do not specifically analyze these products, or the raw materials used in their manufacture, for substances on various state hazardous substances lists, to the best of our knowledge the products on this Material Safety Data Sheet contain no such substances except for those specifically listed below:

SUBSTANCES ON THE NEW JERSEY WORKPLACE HAZARDOUS SUBSTANCE LIST PRESENT AT A CONCENTRATION OF 1% OR MORE (0.1% FOR SUBSTANCES IDENTIFIED AS CARCINOGENS, MUTAGENS OR TERATOGENS): NJTSRN-AS200

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER: None known.

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: None known.

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the data compiled. However, no representation, warranty, or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information.

Responsibility for MSDS :

Specified Technologies, Inc.
200 Evans Way
Somerville, NJ 08876



Specified Technologies, Inc.

PRODUCT DATA SHEET



Series ES Elastomeric Sealant

FEATURES

- **Water-Based** for easy installation and cleanup.
- **Non-halogenated.**
- **Thixotropic** for high-build application.
- **Auto bonding.**
- **Safe...** No solvents! No asbestos!
- **Elastomeric!**
- **Water-Resistant!**
- **UL Classified.**
- **Acoustical** sealant!



FILL, VOID OR CAVITY MATERIALS CLASSIFIED BY UNDERWRITERS LABORATORIES INC. ® FOR USE IN JOINT SYSTEMS. SEE UL FIRE RESISTANCE DIRECTORY

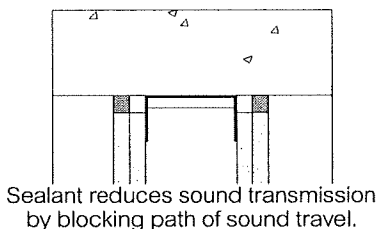
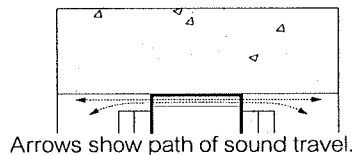
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FILL, VOID, OR CAVITY MATERIALS CLASSIFIED BY UNDERWRITERS LABORATORIES INC. FOR USE IN JOINT SYSTEMS. SEE UL DIRECTORY OF PRODUCTS CERTIFIED FOR CANADA AND UL FIRE RESISTANCE DIRECTORY



FIG. 1: EXAMPLE OF MAINTAINING STC VALUES OF WALL AND CREATING AN EFFECTIVE SOUND BARRIER



1. PRODUCT DESCRIPTION

SpecSeal® Elastomeric Sealant is a non-halogenated latex-based, highly elastomeric caulk designed to provide passive smoke and fire protection in construction joints. This material is also designed to restore sound attenuation properties to sound-rated ceilings and partitions.

SpecSeal® Elastomeric Sealant is engineered to adhere to virtually all construction surfaces and may be applied using standard caulking equipment or by troweling. SpecSeal® Elastomeric Sealant dries to form a flexible shield against the propagation of fire. Its premium latex binder system is totally resistant to water and will not re-emulsify after drying. SpecSeal® Elastomeric Sealant contains no inorganic fibers, asbestos, solvents.

2. APPLICATIONS

SpecSeal® Elastomeric Sealant is designed primarily for the protection of construction joints.

3. PHYSICAL PROPERTIES

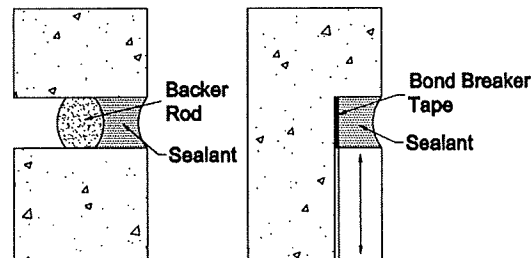
See Table A.

4. PERFORMANCE

When applied to a wet film thickness of 1/4" (6.3 mm) to 1/2" (12.5 mm) over appropriate backing materials, SpecSeal® Elastomeric Sealant has been successfully tested in one, two, three and four hour joints when tested in accordance with UL2079 (ASTM E1966). All tested systems have been cycled 500 times at total movement up to ± 25%. Consult factory for individual system designs and application requirements.

LIMITATIONS: Use product as per manufacturer's instructions. Use only in applications per the manufacturer's tested and published designs or per specific recommendations. End user must ultimately determine the suitability of the product and designs to his specific requirement and assumes responsibility for its use.

FIG 2: RECOMMENDED JOINT DESIGNS - AVOIDING THREE-POINT ADHESION



In the example shown above, sealant is applied (over foam backer rod) flush with wall surface. Backer rod provides a release surface allowing sealant to contract after drying to the recommended hour glass cross-sectional profile.

This example illustrates sealant applied to three planes. Bond breaker tape is applied to one surface to prevent three-point adhesion, eliminating stress on joint as sealant dries and enhancing movement capabilities.



**Table A:
PHYSICAL PROPERTIES**

Product Name	Series ES Elastomeric Sealant
Color	Pale Blue
Odor	Mild Latex
Density	10 Lb/Gal
Solids	66%
pH	7.5
In-Service Temp.	≤120°F (49°C)
Flame Spread	5*
Smoke Development	5*
Movement	±25%**
Solvent Content	None
Drying Time	Tack Free 2 Hours ^A Dry Through 5 to 7 Days ^A
Acoustical	STC = 50
VOC	15 g/l

* Tested to ASTM E84 (UL723) at 14% surface
 **500 Cycles per UL2079, AC30 (ICBO) and ASTM E1399
^ADependent on temperature and humidity

5. SPECIFICATIONS

Consult factory for recommended specification.

6. INSTALLATION INSTRUCTIONS

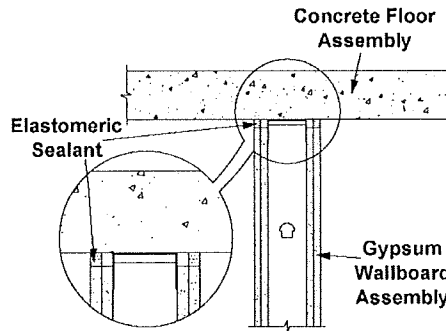
GENERAL: Areas to be protected must be clean and free of oil, loose dirt, rust or scale. Recommended storage and application temperatures range between 40°F (4°C) and 95°F (35°C). When applying product at the lower end of the temperature range, warming the material to 70°F (21°C) will enhance drying characteristics. Drying time will vary according to prevailing temperature and humidity. Allow to thoroughly dry before exposure to moisture.

Consult appropriate manufacturer's drawing for system design requirements. Forming or packing materials may be required as an integral part of various system designs. See Table B on Page 4 for estimation information.

Sealant is auto-bonding and may be applied in stages. **DO NOT ATTEMPT TO THIN PRODUCT BY ADDING WATER.**

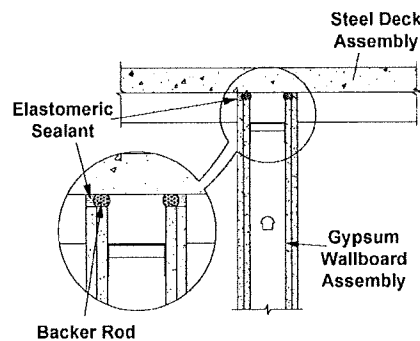
THIS PRODUCT IS DESIGNED FOR PROFESSIONAL INSTALLATION ONLY. This sealant is designed to contract while drying. Proper joint design is critical to

FIG. 3: HEAD-OF-WALL JOINT - GYPSUM WALLBOARD WALL TO CONCRETE FLOOR



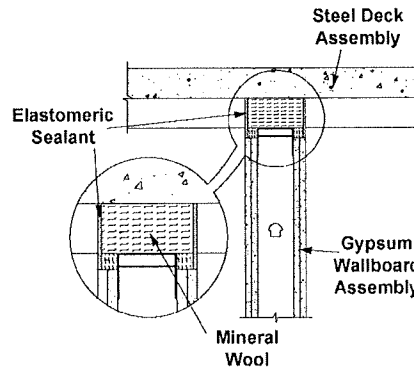
UL System No. HW-D-0079
 Assembly Rating – 1 & 2 Hr • Movement Capabilities: 25% Compress.
 Nominal Joint Width: 3/4" • Forming Material: In 1 hr walls, apply bond breaker tape to ceiling track.
 Sealant Depth: 5/8" depth on both sides.

FIG. 4: HEAD-OF-WALL JOINT - GYPSUM WALLBOARD WALL CUT TO FIT CONTOURS OF STEEL DECK



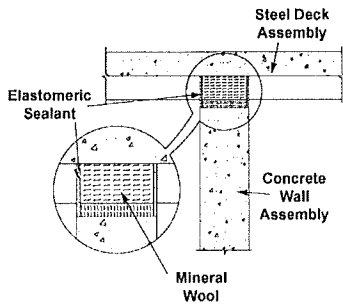
UL System No. HW-D-0103
 Assembly Rating – 1 & 2 Hr • Movement Capabilities: 25% Compress.
 Nominal Joint Width: 3/4" • Forming Material: In 1 hr walls, apply bond breaker tape to ceiling track.
 Sealant Depth: 1/2" depth on both sides.

FIG. 5: HEAD-OF-WALL JOINT - GYPSUM WALLBOARD WALL TO CONCRETE OVER STEEL DECK



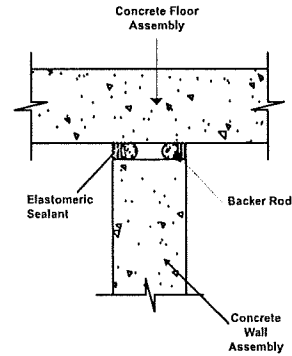
UL System No. HW-D-0034
 Assembly Rating – 1 & 2 Hr • Movement Capabilities: ±25% Compress/Extend.
 Nominal Joint Width: 1" • Forming Material: Nom 4 pcf mineral wool to full depth.
 Sealant Depth: 1/2" depth on both sides.

FIG. 6: HEAD-OF-WALL JOINT - MASONRY WALL TO CONCRETE OVER STEEL DECK



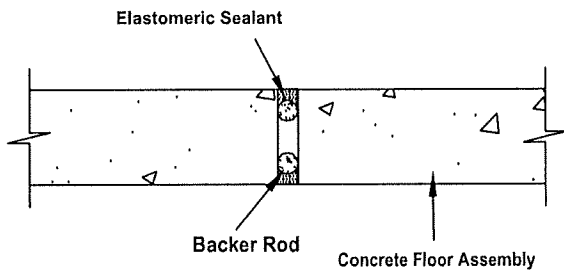
UL System No. HW-D-0039
 Assembly Rating - 2 Hr
 Movement Capabilities: $\pm 25\%$ Compress/Extend.
 Nominal Joint Width: 1"
 Forming Material: Nom 4 pcf mineral wool to full depth.
 Sealant Depth: 1/4" depth on both sides.

FIG. 7: HEAD-OF-WALL JOINT - MASONRY WALL TO CONCRETE FLOOR



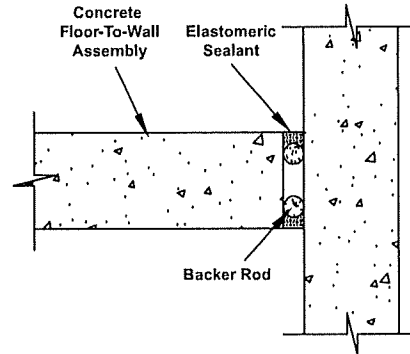
UL System No. HW-D-0041
 Assembly Rating - 3 Hr
 Movement Capabilities: $\pm 12.5\%$ Compress/Extend or 25% Compress.
 Nominal Joint Width: 1" or 3/4" (See System).
 Forming Material: Optional foam backer rod.
 Sealant Depth: 1" or 1/2" (See System) on both sides.

FIG. 8: FLOOR-TO-FLOOR JOINT - CONCRETE FLOOR TO CONCRETE FLOOR



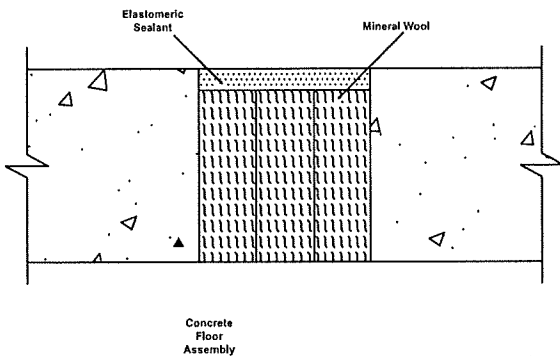
UL System No. FF-D-0005
 Assembly Rating - 3 Hr
 Movement Capabilities: $\pm 12.5\%$ Compress/Extend
 Nominal Joint Width: 1"
 Forming Material: Optional foam backer rod.
 Sealant Depth: 1/2" top and bottom.

FIG. 9: FLOOR-TO-WALL JOINT - CONCRETE FLOOR TO CONCRETE WALL



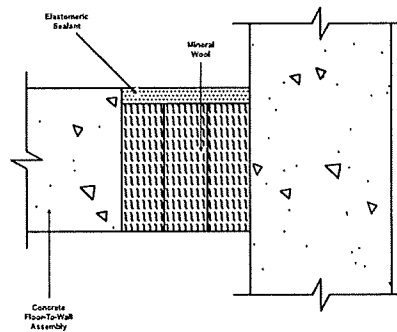
UL System No. FW-D-0005
 Assembly Rating - 3 Hr
 Movement Capabilities: $\pm 12.5\%$ Compress/Extend
 Nominal Joint Width: 1"
 Forming Material: Optional foam backer rod.
 Sealant Depth: 1/2" top and bottom.

FIG. 10: FLOOR-TO-FLOOR JOINT - CONCRETE FLOOR TO CONCRETE FLOOR



UL System No. FF-D-1008
 Assembly Rating - 3 Hr
 Movement Capabilities: $\pm 15\%$ Compress/Extend
 Nominal Joint Width: 4"
 Forming Material: Nom 4 pcf mineral wool to 4" depth.
 Sealant Depth: 1/2" depth of sealant.

FIG. 11: FLOOR-TO-WALL JOINT - CONCRETE FLOOR TO CONCRETE WALL



UL System No. FW-D-1007
 Assembly Rating - 3 Hr
 Movement Capabilities: $\pm 15\%$ Compress/Extend
 Nominal Joint Width: 4"
 Forming Material: Nom 4 pcf mineral wool to 4" depth.
 Sealant Depth: 1/2" depth of sealant.

sealant performance. Avoid three point adhesion through the use of appropriate backing or bond-breaking materials.

See Figure 2 for recommended joint designs. Consult ASTM C1193 Standard Guide for Use of Joint Sealants for additional guidelines concerning the proper application of sealant materials.

7. MAINTENANCE

Inspection: Installations should be inspected periodically for subsequent damage. Following safety precautions listed below (See 9. Precautionary Information) and pertinent installation guidelines, remove coating in damaged areas down to undamaged material. Reapply fresh coating material to original coating thickness.

8. TECHNICAL SERVICE

Specified Technologies Inc. provides toll free technical support to assist in product selection and appropriate installation design. UL Systems, Material Safety Data Sheets and other technical information is available at the Technical Library at www.stifirestop.com.

9. PRECAUTIONARY INFORMATION

Consult Material Safety Data Sheet for additional information on the safe handling and disposal of this material. Wash areas of skin contact with soap and water. Avoid contact with eyes. Apply in areas with adequate ventilation.

10. AVAILABILITY

SpecSeal® Elastomeric Sealant is available from authorized distributors nationwide. Consult factory for the names and locations of the nearest sales representatives or distributors. Packaging information and catalog numbers are listed in Table C.

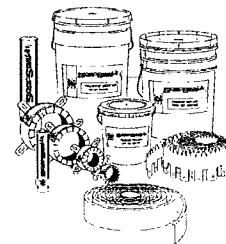
**Table B: PRODUCT ESTIMATION INFORMATION
(Construction Joints)**

JOINT	PER 1/4" INSTALLED DEPTH			PER 1/2" INSTALLED DEPTH			PER 1" INSTALLED DEPTH			
	WIDTH	CU IN/FT	FT/GAL	GAL/100 FT	CU IN/FT	FT/GAL	GAL/100 FT	CU IN/FT	FT/GAL	GAL/100 FT
0.5	1.5	154	.65	3	77.0	1.3	6	38.5	2.6	
0.75	2.3	102	.95	4.5	51.3	1.9	9	25.7	3.9	
1.0	3.0	77	1.3	6.0	38.5	2.6	12	19.3	5.2	
1.5	4.5	51	2	9.0	25.7	3.9	18	12.8	7.8	
2.0	6.0	38	2.6	12	19.3	5.2	24	9.6	10.4	
2.5	8.0	31	3.3	15	15.4	6.5	30	7.7	13.0	
3.0	9.0	25	3.9	18	12.8	7.8	36	6.4	15.6	
3.5	11	22	4.6	21	11.0	9.1	42	5.5	18.2	
4.0	12	19	5.2	24	9.6	10.4	48	4.8	20.8	
5.0	15	15	6.5	30	7.7	13.0	60	3.9	26.0	
6.0	18	12	7.8	36	6.4	15.6	72	3.2	31.2	

TABLE C: ORDERING INFORMATION

SpecSeal® Elastomeric Sealant is available in caulk tubes, sausages and pails.

Cat. No.	Description
ES100	10.1 oz. Tube (300 ml) 18.2 cu.in.
ES129	29.0 oz. Tube (858 ml) 52 cu.in.
ES120	20 oz. Sausage (592 ml) 36 cu. in.
ES105	5 Gal. Pail (19.0 liters) 1,155 cu.in.



Additional SpecSeal Products...

Series AS200 Spray

Inexpensive water-based Elastomeric Spray Coating for construction joint applications. Designed to provide up to ±25% movement.

Series SSS Sealant

The industry's most versatile sealant provides the firestopping solutions for a wide range of combustible and noncombustible applications. Water-based intumescent sealant expands up to 8x!

SSP Firestop Putty

Available both in bar form and in pads, putty provides easy retrofit for through-penetrations and economical protection for electrical boxes.

SSB Firestop Pillows

Durable, monolithic pillows for installations requiring quick and easy retrofitting. Systems designed for pipes, cables and cable tray in all types of construction!

Firestop Mortar

Lightweight, versatile and economical! The best choice for large or complex installations.

Pensil® Silicones

Sealants and foam for through-penetrations and construction joints. Unexcelled aging characteristics and flexibility.

Intumescent Wrap Strips

Three grades of intumescent wrap strips provide an unmatched combination of flexibility, economy, and expansion (up to 30x). Systems for plastic pipes including FR Polypropylene up to 8" trade size!

CITY OF NEW YORK MEA 290-98M

Important Notice: All statements, technical information, and recommendations contained herein are based upon testing believed to be reliable, but the accuracy and completeness thereof is not guaranteed.

WARRANTY: Specified Technologies Inc. manufactures its goods in a manner to be free of defects. Should any defect occur in its goods (within one year), Specified Technologies Inc., upon prompt notification, will at its option, exchange or repair the goods or refund the purchase price.

Limitations and Exclusions: THIS WARRANTY IS IN LIEU OF ALL OTHER REPRESENTATIONS EXPRESSED OR IMPLIED (INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR USE) AND UNDER NO CIRCUMSTANCES SHALL SPECIFIED TECHNOLOGIES INC. BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL PROPERTY DAMAGE OR LOSSES. PRIOR TO USE, THE USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR ITS INTENDED USE, AND THE USER ASSUMES ALL RISKS AND LIABILITY FOR SUBSEQUENT USE. No statement or recommendation not contained herein shall have any force or effect unless in an agreement signed by officers of seller and manufacturer.

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