DECKTITE™ 235 GS

Gun Grade Expansion and Control Joint Sealant
Designed to resist moisture, abrasion and movement.

Composition: A multi-component chemically curing, gun grade polyurethane joint sealant.

Basic Use: DECKTITE 235 GS is specifically developed for horizontal concrete expansion and control joints with slopes up to 10%. It is used in parking garages, plaza and terrace decks, floor and sidewalk joints.

Limitations:
- Not designed for areas subject to constant spillage of harsh chemicals, such as acids, alkalies, and organic solvents.
- For decorative pavers such as glazed tile, granite, quarry tile and travertine, special primer may be required. Consult your local Tremco representative for adhesion and staining tests.
- NOT Intended for vertical applications.
- Not self leveling, must be tooled.
- Not for use with Tremco Primer No. 1.

Packaging: DECKTITE 235 GS is packaged as a 1-1/2 gallon (5.68 liters) unit in a 2 gallon (7.57 liters) pail. The Curative is provided in two separate containers inside the pail and both must be added to the DECKTITE 235 GS Base and thoroughly mixed along with the Dymeric 511 Color Pak (provided separately).

Color: DECKTITE 235 GS uses the multi-system Color Pak and is available in five standard colors, Limestone, Bronze, Aluminum Stone, Precast White and Black. One Dymeric 511 Color Pak (pigmented concentrate) mixes with a 1-1/2 gallon (5.68 liters) DECKTITE 235 GS Base unit.

Applicable Standards: DECKTITE 235 GS is supplied in a gun grade formulation, not for use in vertical joints, meeting the requirements of U.S. Federal Specification TT-S-00227E; ASTM C920-87, Type M, Grade P, Class 25, use T,M, O; Federal Specification SS-S-200D3.3.3, (jet fuel resistance), Type H and Tremco standards.

Product Advantages

Features	Benefits
Chemical curing system	• Cured sealant exhibits consistent tear and abrasion resistance; long-term recovery from normal stress or strain.
Low modulus sealant	• Expands and contracts without putting excessive stress on the adhesive bond line.
Rapid cure	• Allows for a minimal amount of "down-time" on a project.

TECHNICAL DATA

Joint Design: Minimum size of joint should be four times the anticipated movement. Minimum joint dimension is 3/8" x 3/8" (10 mm X 10 mm), to allow for adequate cleaning and priming.

For joints 1/2" (13 mm) and wider, the depth of the sealant should be no more than 1/2" (13 mm) deep.

Consult with your local Tremco representative for specific design details.

Initial Set: Open to foot traffic after at least 24 hours at 70°F (21°C); longer times required at lower temperatures.

Firm Cure: Open to vehicular traffic after at least 72 hours at 70° F(21°C); longer times required at lower temperatures.

Final Cure: Two weeks at 70°F (21°C).

Pot Life: Approximately 1 hour at 75°F (24°C). Higher temperatures will accelerate cure rate and shorten the pot life.

JOINT WIDTH-TO-DEPTH RECOMMENDATIONS

Width	3/8″ 10 mm	1/2″ 13 mm	3/4″ 19 mm	1-1/2″ 38 mm	2″ 51 mm
Depth	3/8″ 10 mm	1/2″ 13 mm	1/2″ 13 mm	1/2″ 13 mm	1/2″ 13 mm

Consult your local Tremco representative for details.

SURFACE PREPARATION

New Construction: The joint interface must be clean, dry and free from loose mortar, laitance and foreign substances. Depending upon the substrate, a thorough wire brushing, grinding, or sand blasting may be required. The presence of form release agents, waterproofings, dampproofings, or other contaminants, will require grinding or sand blasting to expose clean sound concrete.

Remedial Applications: All previous sealants, mastics, or joint fillers should be removed by saw-cutting. Joint faces should then be sandblasted or ground to expose clean, sound, concrete prior to priming.

Primer: After proper substrate preparation, concrete surfaces to receive DECKTITE 235 GS must be treated with DECKTITE 100 CP. Apply DECKTITE 235 GS when the DECKTITE 100 CP is tack free. Consult DECKTITE 100 CP data sheet for instructions and recommendations.

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Sealant Repairs And Splices: DECKTITE 235 GS is used as a repair material between failed sections of cured DECKTITE 230 SL or DECKTITE 235 GS. DECKTITE 235 GS is also used for splicing cured sections of DECKTITE 230 SL together. The existing DECKTITE 230 SL or DECKTITE 235 GS is cleaned by surface grinding followed by dry wiping with clean cloths and primed with DECKTITE 100 CP prior to the application of the DECKTITE 235 GS. Joint interfaces are prepared the same as in the remedial treatment procedure.

Mixing: The sealant must be thoroughly mixed in accordance with manufacturer's directions on container label. Proper mixing is achieved with a slow speed, heavy-duty drill (maximum 300 rpm) for not less than 6 minutes, using a two-blade mixing paddle.

Joint Backing-Bondbreaker: Joints shall be backed with round closed-cell polyethylene, neoprene, or butyl rod under 30% compression. The sealant must not be applied against open cell backer rod, impregnated fiberboard, sand, or other absorbing type backup materials that retain moisture. These materials must be cut back deep enough to allow for proper joint backing.

Where joint design, or depth of joint will not permit the use of joint backing, a bondbreaker tape must be installed to prevent three- sided adhesion.

An adhesive backed polyethylene tape should be used.

Application: DECKTITE 235 GS is a gun grade material which can be applied on sloped areas and in control joints using a standard bulk caulking gun.

Tooling: Following installation, DECKTITE 235 GS must be tooled to insure intimate contact with joint sides. Dry tooling is preferred.

Cleaning: Immediately remove all excess sealant smears adjacent to the joint with Xylene or Toluene, as work progresses. Cured sealant can be removed easily from unprimed concrete.

Precautions: For all Tremco products, and for other products used in conjunction with Tremco products, users must follow individual product labels and Material Safety Data Sheets for warnings and precautions prior to opening containers and during use and storage. Products must be used with adequate ventilation and personal protection, and vapors must be prevented from entering occupied buildings.

Storage Life: Six (6) months in factory sealed, unopened containers.

Availability & Cost: Contact your local Tremco representative for pricing and availability. For the name and number of your representative, call Tremco at (216) 292-5000.

Guarantee: Tremco warrants DECKTITE 235 GS to be free of defects and to meet published physical properties when installed and tested according to ASTM and Tremco standards. Under this warranty, Tremco will provide at no charge DECKTITE 235 GS to replace any product proved to be defective when installed in accordance with our written instructions and in applications recommended by Tremco as suitable for this product. THIS IS THE BUYER'S SOLE AND EXCLUSIVE REMEDY.

All claims concerning product defects must be made in writing within twelve months of shipment. Absence of such claims in writing, during this period, will constitute a waiver of all claims with respect to such product. This warranty is in lieu of any other warranty, expressed or implied, including but not limited to, any implied warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

TYPICAL PERFORMANCE CHARACTERISTICS

Decktite 235 GS

Cured Sealant Properties	Typical Value	Test Method
Adhesion-in-Peel	30-35 pli on concrete primed with DECKTITE 100 CP	ASTM C-794
Shore A Hardness:		ASTM C 920
Standard Conditions	25-30	
After Heat Aging	30-35	
Artificial Weathering	No change elastomeric property change after 1,000 hours	ASTM G 230 Type D
Bond Durability	No failure between masonry blocks after 25% extension	ASTM C 920
Tensile Strength	200-250 psi	ASTM D 412
Ultimate Elongation	500%-650%	ASTM D 412
Recovery	95%-97%	TT-S-00227E Durability specimens blocked at 25% extension for 48 hours
Weight Loss	10%	TT-S-00227E
Tear Resistance	50-60 psi	ASTM D 624
Staining	Passes	ASTM C 920
Service Temperature	-40° to 180°F (-40° to 82.5°C)	N/A
Application Temperature (substrate)	40° to 120°F (4°C to 49°C)	N/A

Technical Service: Your local Tremco representative, working with the technical service staff, can help analyze conditions and needs to develop recommendations for special applications. The services of the Tremco Research Center, which has earned a unique reputation in weatherproofing technology, complement and extend the services of the Tremco technical service staff.

Statement of Policy and Responsibility: Tremco takes responsibility for furnishing quality materials and for providing specifications and recommendations for their proper installation.

As neither Tremco itself nor its representative practice architecture or engineering, Tremco offers no opinion on, and expressly disclaims any responsibility for the soundness of any structure on which any of its products may be applied. If questions arise as to the soundness of a structure or its ability to support a planned installation properly, the owner should obtain the opinion of competent structural engineers before proceeding. Tremco accepts no liability for any structural failure or for resultant damages, and no Tremco representative is authorized to vary this disclaimer.

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