SpecSeal® CS105 Cable Spray

SpecSeal® CS105 Cable Spray is a latex-based, ablative elastomer that will also intumesce to protect single or grouped electrical cables against flame propagation. This coating, when properly installed, will limit flame spread according to IEEE 383, IEEE 1202, IEC 60332-3, and Factory Mutual (FM) Class 3971. Additionally, CS105 may provide some degree of short-term circuit integrity during a fire situation according to IEC 60331-21.

SpecSeal® CS105 Cable Spray is formulated to adhere well to virtually all cable jacketing materials and may be applied using airless spray equipment or with a brush. SpecSeal® CS105 Cable Spray is very high in solids (by volume) and offers the highest coverage rates of any product of this type.

SpecSeal® CS105 Cable Spray 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® CS105 Cable Spray does not contain inorganic fibers, asbestos, or solvents.

Features & Benefits

- Water-based for easy installation & cleanup
- Thixotropic for high-build application
- High solids, better coverage
- Safe, no solvents, no asbestos, no PCB's, no inorganic fibers
- Non-halogenated
- Flexible
- Water and weather resistant
- Low abrasion for longer pump life and less maintenance
- Auto bonding
- Meets LEED™ v3 requirements. Low emitting materials credit. See general LEED letter for additional applicable credits.

Applications

SpecSeal® CS105 Cable Spray is primarily designed for the protection of grouped electrical, data, or communications cables in cable tray or racked cable applications to limit the spread of fire.

Specifications

The single component fire protective cable coating shall be a water-based ablative elastomer that will also intumesce. The coating shall dry to form a flexible, water and weather-resistant film and shall not contain solvents, asbestos, or inorganic fibers. The coating shall be thixotropic and shall be capable of being applied by brush application or by airless spray. The approved coating shall be FM Approved Class 3971 and tested according to IEC 60332-3, IEEE 383, and IEEE 1202.

Specified Divisions

Division 7	07 84 00	Firestopping
Division 26	26 00 00	Electrical

Performance

SpecSeal® CS105 Cable Spray meets Factory Mutual (FM) Approval requirements for the protection of grouped electrical cables (FM Class No. 3971). Tests conducted by FM Approvals indicate that ampacity derating of cables is not required when installed as per recommendations. SpecSeal® CS105 Cable Spray also meets IEC 60331-21 and IEC 60332-3 and passes IEEE 383/1202.

Limitations

Use product as per manufacturer's instructions. Use only in applications per the manufacturer's published designs or specific recommendations. End user must ultimately determine the suitability of the product and/or design to his or her specific requirements and assumes responsibility for its use. PRODUCT CONTAINS WATER AND IS CONDUCTIVE UNTIL DRY. DO NOT APPLY IN THE PRESENCE OF EXPOSED OR ENERGIZED ELECTRICAL CONDUCTORS.

SpecSeal® CS105 Cable Spray

PHYSICAL PROPERTIES	
Color	White
Density/Weight per Gallon	10.7 lb/gal (1.28 kg/L)
Solids Content by Weight	68.9%
Solids Content by Volume	62.5%
Flame Spread*	0
Smoke Development*	15
Coverage	17.1 sq ft/gal @ 3/32" Wet Film Thickness (0.42 sq m/L @ 2.4 mm Wet Film Thickness)
Viscocity	105,000 cps
In Service Temperature	Less than 185°F (85°C)
Storage Temperature	40°F (4°C) to 95°F (35°C)
Application Temperature	40°F (4°C) to 95°F (35°C)
Drying Time***	Tack Free 2 Hours Dry Through 24-48 Hours
VOC Content**	26 g/L
Shelf Life From Date of Manufacture	24 months

* Tested to ASTM E84 (UL723) at 14% surface coverage (modified test for sealants and caulks)
** Per SCAQMD Rule 1168 (EPA Method 24)
*** Dependent on temperature and humidity

This product has been designed to be safe with plastics. It has been used extensively and successfully with various types of plastic pipes, tubes, and plastic cable insulations. Variations in these materials, however, make it impossible to guarantee compatibility. STI strongly recommends that the user consults with the pipe, tubing, or cable manufacturer in question regarding any known sensitivities or potential restrictions before applying this product.

System Selection

To find your firestop system or create a submittal, visit https://systems.stifirestop.com/ to use System Search & Submittal Builder. You may also visit the UL Online Certifications Directory/UL Product iQ™ for complete listings. (Firestop Systems).

Maintenance

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

Retrofit: Cables may be easily added or removed from coated installations. New cables should be coated as per established plant maintenance schedules and guidelines. Consult facility safety supervisor.

Technical Service

Specified Technologies Inc. provides toll free technical support to assist in product selection and appropriate installation design. A complete library of technical information is provided at the company's website www.stifirestop.com including Safety Data Sheets (SDS's).

SpecSeal® CS105 Cable Spray

Precautionary Information

Consult Safety Data Sheet (SDS) 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. SPECSEAL® CS105 CABLE SPRAY IS CONDUCTIVE UNTIL DRY. DO NOT APPLY TO ENERGIZED ELECTRICAL CONDUCTORS. INSTALL UNDER THE SUPERVISION OF PLANT OR FACILITY ELECTRICAL ENGINEER OR SAFETY MANAGER.

Application Equipment

NOTICE: Spray application of SpecSeal® CS105 Cable Spray requires airless spray equipment meeting the following specifications:

Working Pressure: Min. 3,000 PSI (207 bar)

Delivery: Min. 0.72 U.S. gpm (2.73 lpm) recommended

Spray Tip Orifice: 0.023 in to 0.026 in (0.58 to 0.66 mm) recommended

Wetted Parts: All seals and contact surfaces suitable for contact with latex emulsions.

The following airless spray equipment has demonstrated suitability for application of this product. STI makes no warranties concerning the suitability or use of this equipment and has no affiliation of any kind with its manufacturer. A minimum 3/8 in (9.5 mm) fluid line is required, a 1/2 in (13 mm) line is preferred. Consult spray equipment manufacturer for longer hose runs or lifts to higher elevations. A reversible spray tip is recommended. A 6 in (152 mm) fan pattern is suggested to minimize overspray. The following equipment is manufactured by Titan Tool, Inc., Franklin Lakes, NJ. Item Item Name & Description: Titan 740ix Electric Airless Sprayer, Graco Inc. Ultra Max II 695 Electric Airless Sprayer.

Availability

SpecSeal® CS105 Cable Spray is available from Specified Technologies Inc. (STI) authorized distributors. For additional purchasing and technical information or for the names and locations of the nearest representative and/or distributor, regarding this and other Specified Technology products, please call 1-800-992-1180 or visit www.stifirestop.com.

ORDERING INFORMATION

Catalog Number	UPC Number	Size	(UOM) Qty.	Case Qty.	Weight (Each)
CS105	730573071045	5 Gallon Pail - 1,155 cu. in. (19 liters)	1	1	53.63 lbs (24.33 kg)