

MATERIAL SAFETY DATA SHEET



MANUFACTURER Conspec Marketing & Manufacturing Co., Inc. 636 South 66th Terrace, Kansas City, KS 66111	EMERGENCY TELEPHONE NUMBER 1-800-535-5053 INFORMATION TELEPHONE NUMBER 1-800-348-7351
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PRODUCT NAME Conspec #21	CHEMICAL COMPOSITION Modified sodium silicate solution				
ACUTE HEALTH 1	FIRE 0	REACTIVITY 0	HAZARD RATING LEAST - 0 HIGH - 3	SLIGHT - 1 EXTREME - 4	MODERATE - 2 See Section IV and V

SECTION II - HAZARDOUS INGREDIENTS IDENTITY INFORMATION

CHEMICAL NAME	CAS #	ACGIH PEL	OSHA TLV	OTHER EXXON	APPROX.
Non-hazardous silicic acid sodium salt proprietary component	134-09-8	-	-	-	-

SECTION III - PHYSICAL DATA

BOILING POINT (°F)	214-216°F	SPECIFIC GRAVITY (H ₂ O = 1)	1.128 ± .05
VAPOR PRESSURE (mm Hg.)	N/A	pH	12
VAPOR DENSITY (Air = 1)	N/A	VOLATILE ORGANIC CONTENT (grams per liter less water)	<350 g/l
EVAPORATION RATE (Butyl Acetate = 1)	N/A	DECOMPOSITION TEMP.	N/A
SOLUBILITY IN WATER, %	100	PERCENT VOLATILE BY WEIGHT	N/A

APPEARANCE AND ODOR: Colorless or red liquid with none to slightly soapy odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: Non-Combustible	FLAMMABLE LIMITS	L.E.L. N/A	U.E.L. N/A
FLASH POINT (Method Used):		N/A	

EXTINGUISHING MEDIA: Water, water mist, dry chemical, etc.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

SPECIAL FIRE FIGHTING PROCEDURES: Protective clothing for skin and eyes

SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: INHALATION SKIN INGESTION

CANCER CAUSING AGENT: N/A NTP N/A ARC N/A OSHA

EFFECTS OF ACUTE AND CHRONIC OVEREXPOSURE: Mist or spray may be irritating to eyes, skin, mucous membranes of the respiratory tract, mouth, throat, esophagus and stomach.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: N/A

EMERGENCY AND FIRST AID PROCEDURES: EYES - Immediately flush with a large amount of water and consult physician.

SKIN - Wash with plenty of water for at least 15 min. Remove soiled clothing. Consult physician if symptoms are present.

INHALATION - Get person to fresh air.

INGESTION - Do not induce vomiting. Give large amount of water or milk, and seek medical attention immediately.

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SECTION VI - REACTIVITY DATA

STABILITY:	UNSTABLE		HAZARDOUS	WILL OCCUR	
	STABLE	X	POLYMERIZATION	WILL NOT OCCUR	X
CONDITIONS TO AVOID: Prolonged contact with aluminum, tin, lead and zinc metals.					
INCOMPATIBILITY (Materials to avoid): Acids					
HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen					

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Contain Liquids and prevent discharges to streams or sewer systems. Report spills to the appropriate local state and federal agencies.
WASTE DISPOSAL METHOD: Permitted landfill waste disposal system dispose of in accordance with state and local regulations.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Where mist or spray use a NIOSH approved respirator	
VENTILATION: Local exhaust when sprayed	EYE PROTECTION: Chemical splash goggles with side shields To prevent prolonged skin contact, wear
PROTECTIVE GLOVES: Rubber gloves	OTHER PROTECTION EQUIPMENT: protective clothing and boots.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Do not store in aluminum containers as flammable hydrogen can be generated. Do not use aluminum fittings or transfer lines.
OTHER PRECAUTIONS: N/A

SECTION X - SARA TITLE III SECTION 313 REPORTING INFORMATION

INGREDIENTS:	CAS #	% MAX	REPORT QUANTITY
		N/A	

SECTION XI - STATE & OSHA COMPOSITION INFORMATION

N/A

SECTION XII - REGULATORY INFORMATION

D.O.T.: HAZARD CLASS,	PROPER SHIPPING NAME (MATERIAL DESCRIPTION)	IDENTIFICATION NUMBER
	Not regulated by D.O.T. material	

Conspec #21

Cures • Hardens • Dustproofs

Description

A multi-use concrete curing compound. USDA accepted, chemically reactive, with a Five Year Dustproofing Guarantee. Enhances the abrasion, impact, and chemical resistance of concrete.

Conspec #21 is a water-soluble compound specifically formulated to maintain the natural appearance of concrete. The adhesion of secondary toppings, coatings, and final concrete finishes is not affected. It is odorless, non-flammable, and V.O.C. Compliant.

Manufacturer

Conspec Marketing &
Manufacturing Co., Inc.
636 South 66th Terrace
Kansas City, Kansas 66111
Telephone: (913) 287-1700
(800) 348-7351

Use

Freshly Placed Concrete: Conspec #21 is formulated for curing and dustproofing freshly cast concrete. Combines with the free lime and other chemicals in the concrete to form a moisture barrier that restricts moisture evaporation, assuring better hydration and a positive cure.

Conspec #21, when applied to concrete, forms an insoluble gel within the surface pores and capillaries. The concrete surface is dust-free and more resistant to cutting oils, salt, alcohol, weak citric acid, kerosene, gasoline, jet fuels and some solvents.

Conspec #21 is recommended for use on exterior concrete surfaces where the natural appearance of the concrete is to be preserved and weather resistance improved.

Benefits

- Conspec #21, when applied as directed, does not affect the bonding characteristics

of cement-type toppings, sealers, asphalt, cut-back adhesives, urethanes, epoxies or insulation adhesives.

- *Aged Concrete:* renews aged concrete or terrazzo floors and provides a new, long-wearing and dustproofed surface on sound substrates.

- Conspec #21 applies easily, re-coats easily and contains a red fugitive dye to aid in even application and to check the application.

- Conspec #21 is non-flammable and non-explosive; no harmful or noxious fumes are created. Safe to use.

Applicable Standards

USDA Accepted for use in federally inspected meat and poultry plants. Meets all local, state, and federal VOC and air quality regulations. Asphalt and Vinyl Asbestos Tile Institute. Federal requirements for silicate concrete surface treatments.

Architectural Specifications

Cure/Dustproofing Compound:
Material must be a sprayable sodium silicate based compound, USDA accepted. Material must not inhibit bonding of any secondary toppings. Use in areas where solvent-based sealers are unacceptable. Approved product: Conspec #21 or approved equal.

Application

Coverage: Square Feet Per Gallon (m²/L)
Curing, Hardening and Dustproofing:
Hard Troweled Finish 300 to 500 (7.4-12.3)
Broom or Float Finish 200 to 400 (4.9-9.8)
Rough Finish 200 to 300 (4.9-7.4)
Aged Concrete 200 to 300 (4.9-7.4)
Vertical Surface 200 to 300 (4.9-7.4)

May be applied with sprayer, brush or roller. Spraying provides superior results.

The above rates are approximate. Exact coverage depends upon the porosity of the concrete as well as the job requirements.

Apply immediately after final finishing operations and after the bleed water has receded. At this point, apply promptly. Brush out puddles and runs.

Protect metal, glass, painted and brick surfaces from Conspec #21. If accidentally misapplied, wash with clean water at once.

For aged concrete, surface must be free of dirt and all other foreign matter. Surface should be dry to permit maximum penetration.

Composition

Conspec #21 contains silicates to assure complete deep penetrating chemical reaction with the lime and calcium carbonate in the concrete. No waxes, fillers, or flammable materials are added.

Water may be used as the clean-up material. Thinning is not necessary or desirable.

Color: Transparent. Fugitive dye is added to aid in application. Conspec #21 is available without dye upon request.



Packaging

55 gallon drums (208.2 L)

5 gallon pails (18.9 L)

1 gallon jugs (4 to a case)(3.8 L)

Limitations/Precautions

Protect metal, glass, painted and brick surfaces from Conspec #21. If accidentally misapplied, wash with clean water at once.

Do not use over colored or pigmented concrete. Do not use as a cure on slabs intended for use as a tilt-up casting bed. For tilt-up construction use Conspec Tilt-Eez, CST, or Conspec #1 for curing the casting bed. Protect from freezing. If freezing occurs, thaw and agitate well at room temperatures.

Keep out of reach of children. Do not take internally. Avoid prolonged contact with skin. If swallowed, call physician. If splashed in eyes, wash repeatedly with clean water and call physician. Wear rubber gloves, goggles and protective clothing.

Avoid hazards by following all precautions found in the Material Safety Data Sheet (MSDS), product labels and technical literature. Please read this information prior to using the product.

Guarantee

Conspec Marketing & Manufacturing Co., Inc. extends to the portion of the above project on which Conspec #21 is used as a hardening and dustproofing agent, a five-year anti-dusting guarantee based on the following procedures:

1. Apply two coats of Conspec #21 at no less than the rate of one gallon per four hundred square feet. The second coat

should not be applied sooner than twelve hours after the first application. The material is to be applied as per the written instructions.

2. The material is to be applied under the supervision of Conspec Marketing & Manufacturing Co., Inc. or their authorized agent and a certificate of guarantee issued by Conspec Marketing & Manufacturing Co., Inc.

In the event that the concrete should begin dusting as a result of wear and abrasion during the Five Year Guarantee period, Conspec Marketing & Manufacturing Co., Inc. shall supply enough material, at no charge, to recoat only those areas that are dusting.

Warranty

Conspec Marketing & Manufacturing Co., Inc. warrants that at the time and place we make shipment, our materials will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM OR TRADE OR OTHERWISE. As the exclusive remedy for breach of this Warranty, we will replace defective materials, provided, however, that the buyer examine the materials when received and promptly notify us in writing of any defect before the materials are used or incorporated into a structure. Twelve (12) months after Conspec Marketing & Manufacturing Co., Inc. has shipped the

materials, all our Warranty and other duties with respect to the quality of the materials delivered shall conclusively be presumed to have been satisfied, all liability therefore terminates, and no action for breach of any duties may thereafter commence. Conspec Marketing & Manufacturing Co., Inc. shall in no event be liable for consequential damages. Unless otherwise agreed to in writing, no warranty is made with respect to materials not manufactured by Conspec Marketing & Manufacturing Co., Inc. We cannot warrant or in any way guarantee any particular method of use of application or the performance of materials under any particular condition. Neither this Warranty nor our liability may be extended or amended by our salespeople, distributors or representatives or by any sales information or drawings.

Storage

Conspec #21 should be stored in tightly sealed original factory containers. Store in a horizontal position to prevent moisture accumulation on the drum head. Protect from freezing.

Technical Services

Complete technical and specification services are available from the manufacturer and their authorized representatives and distributors.

Filing System

Additional literature and the Material Safety Data Sheet can be obtained from Conspec upon request.



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