



Chemical® Corporation

FreedomTuff® 5135 Joint Filler Technical Data Sheet

PRODUCT DESCRIPTION

Freedom Chemical Corporation's FT-5135 is a two component; urethane modified flexible epoxy joint filler. It is a free flowing product without any body so it can be poured or caulked into control joints. FT-5135 has superior chemical resistance, thermal shock resistance making it ideal for use as a control joint filler for concrete joints as well as standard concrete horizontal surface cracks.

ADVANTAGES

- 100% Solids - Meets SCAQMD Requirements
- Low Odor
- Flexible, 600% elongation
- Remains flexible
- Resists hot water dumping up to 200°F
- Excellent impact and abrasion resistance
- Resists staining and major chemical spills of cleaning supplies
- High chemical resistance

RECOMMENDED USES

- Warehouse Floors
- Retail Floors
- Chemical Processing
- Food Processing Plants
- Marine
- Industrial and Manufacturing Facilities

SURFACE PREPARATION

It is generally well established that correct surface preparation is the most important factor affecting the total success of a surface treatment. Be sure that the surface is clean, dry, and sound and has sufficient profile to obtain adequate product adhesion. The presence of even small amounts of surface contaminants, efflorescence, laitance, salts, curing compounds, dust, dirt, oil, form releases, grease, oxides etc. and other foreign matter can physically impair and prevent coating adhesion to the substrate.

It is recommended that an adhesion test be performed prior to starting any coating project.

Concrete should be cured for a minimum of 28 days prior to product application and have at least 3000 psi compressive and 220 psi tensile strength.

Existing Joints: The best performance is achieved with a chase cut of existing cracks. Do not wet cut. Cut joint must be completely dry.

New Joints: Cut the joint to the desired thickness and depth. Deep joints should be filled with dry sand or backer rod.

SURFACE PREPARATION REFERENCES

- ASTM D4258-Standard practice for cleaning concrete
- ASTM D4259-Standard practice for abrading concrete
- ASTM D4260-Standard practice for etching concrete
- ASTM F1869-Standard test method for measuring moisture vapor emission rate of concrete
- ICRI 03732: CSP 3-5-Concrete surface preparation
- SSPC-SP 5/NACE No.1, White Metal Blast Cleaning
- SSPC-SP 6/NACE No. 3, Commercial Blast Cleaning
- SSPC-SP 7/NACE No. 4, Brush-Off Blast Cleaning
- SSPC-SP 8, Pickling
- SSPC-SP 10/NACE No.2, Near-White Blast Cleaning

- SSPC-SP 11, Power Tool Cleaning to Bare Metal
- SSPC-SP 12/NACE No. 5, Surface Preparation and Cleaning of Metals by Water Jetting prior to Recoating
- SSPC-SP 13/NACE No. 6, Surface Preparation of Concrete
- SSPC-SP 14/NACE No. 8, Industrial Blast Cleaning

COLOR

Grey - Due to its chemical composition FT-5135 will discolor.

COVERAGE RATE

Linear Feet per Gallon (Approximate)

Inches	1/4	1/2	3/4	1
1/4	308	154	103	72
1/2	154	72	51	38
3/4	103	51	38	26
1	72	38	26	19

PACKAGING

1 Gallon Kit: 0.75 gallon (2.84 liters) of part A and 0.25 gallon (0.95 liters) of part B.

MIXING/ APPLICATION PROCEDURES

Blend 0.75 Part-A with 0.25 Part-B by volume.

In a separate mix pail pour FT-5135 A and then add FT-5135 B and mix with a Jiffy® Mixer Blade model ES for 3 minutes.

NOTE: Once the container is opened and mixed it can't be resealed for later use.

Apply FT-5135 at a rate of 1/4" – 1" to the joint using a caulk or dispensing pump. Do not over fill as joint material will over flow onto the surface of the floor.

Allow the FT-5135 to cure for a minimum of 24 hours after application at 75°F (24°C) and 50% RH before applying the other coatings as a top coat or opening to traffic. Only open the floor to light traffic after sufficient cure, allow more time for low temperatures and higher humidity or for heavier traffic. Full coating properties may take up to 7 days to develop.

EQUIPMENT CLEAN UP

Immediately clean equipment with an environmentally safe solvent, as permitted by local regulations. Cured or dried material may be removed by mechanical means.

SPECIFICATION ASSISTANCE

Contact Freedom Chemical Corporation for specification assistance.

Jobsite visits by Freedom Chemical Corporations employees or its independent agents are solely for the purpose of determining qualification for warranty.

STORAGE

FT-5135 has a shelf life of 1 year from the date of manufacture, in original, factory sealed containers.

Never store directly on concrete surface, always store on pallets. Avoid freezing temperatures. Rotate stock regularly.

LIMITATIONS

The end user should check the suitability of this product prior to its application.

Excess moisture vapor in concrete slabs may result in primer and/or coating to delaminate, discolor or cause improper curing.

Do not open until ready to use.

Freedom Chemical assumes no liability for substrate defects.

Substrates that have previously been coated are subject to absorption, which may affect the adhesion of a new coating.

Rain, high temperatures and humidity can significantly affect pot life and the cure time.

Low temperatures and humidity can extend the cure time.

Not UV Stable FT-5135 will discolor.

WARNING

FT-5135 contains Epoxy Resins.

CHEMICAL RESISTANCE

Solvents		
Ethylene Glycol	E	G
Isopropanol	F	F
Methanol	P	P
d-Limonene	E	E
Jet Fuel	G	G
Gasoline	P	P
Mineral Sprits	F	F
Xylene	P	P
Miscellaneous		
20% Ammonium Nitrate	E	E
Brake Fluid	E	G
Bleach	E	E
Skydrol®	F	P
20% Sodium Chloride	E	E
10% TSP	E	E
Motor Oil	E	E

E – Excellent (Not Effected) – Recommended

G – Good (Limited Negative Effect) – Short Term Exposure

F – Fair (Moderate Negative Effect) – Not Recommended

P – Pour (Unsatisfactory – No Resistance to Exposure)

NOTE: THE END USER SHOULD CHECK THE SUITABILITY OF THIS PRODUCT PRIOR TO ITS USE.

TECHNICAL DATA

MIX RATIO BY VOLUME.....3:1 (A:B)
DRY TIME ASTM D-5895.....6 - 10 HOURS FULL CURE 7 DAYS
FLASH POINT ASTM D-3278.....>215° F (104° C)
TOTAL SOLIDS VOLUME ASTM D-2369.....100%
VOC CONTENT ASTM D-3960.....0 G/L
MIXED VISCOSITY ASTM D-2196.....5,000 – 15,000 CPS
SET TIME – TACK FREE.....6 – 10 HRS 72°F ¼" X ¼"
CURE TIME – TRAFFIC.....18 – 36 HRS 72°F ¼" X ¼"
TENSILE STRENGTH ASTM D638 TYPE V.....1800 PSI
ELONGATION ASTM D638 TYPE V.....400 – 600%
SHORE HARDNESS, ASTM D-2240.....87 A , 35 D
ADHESION TO CONCRETE ASTM D-4541.....350 PSI CONCRETE FAILURE
APPLICATION THICKNESS.....1/4" X ¼" TO 1" X 1"

NOTE: THE END USER SHOULD CHECK THE SUITABILITY OF THIS PRODUCT PRIOR TO ITS USE.

Incredible Stuff, Friendly People and Exceptional Service™

LIMITED WARRANTY: Read all information in the product data sheets, and material safety data sheets (MSDS) before applying material. Product information and instructions are subject to change without notice. Contact your Freedom Chemical Corporation agent or visit our website for current product information and instructions. Products manufactured by Freedom Chemical Corporation are free of defects and will meet Freedom Chemical Corporations current published physical properties. There is no other warranties given by Freedom Chemical Corporation of any kind implied, or expressed, including any warranty of fitness for a particular purpose, and/or merchantability in connection with this product.

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