Atlas Minerals & Chemicals, Inc.

DATA SHEET

3-51PI[CR] (6-13)
Supersedes 3-51PI[CR] (1-12)

ATLAS® VTF NOVOLAC GROUT

DESCRIPTION AND USES
ATLAS VTF NOVOLAC GROUT is a water-washable novolac epoxy grout used in conjunction with the ATLAS VTF SYSTEM. It is capable of filling joint widths as narrow as 5/64" to 1/8" (2 to 3 mm) and in most conditions is not prone to hazing or staining of tile surfaces.

CHEMICAL RESISTANCE
ATLAS VTF NOVOLAC GROUT has good chemical resistance to a wide range of acids, solvents, caustics and many by-products and cleaning compounds common to food and beverage process flooring.

AVAILABLE COLORS
Standard colors are black, gray and white. Many additional colors are available and subject to a minimum order quantity.

PACKAGING
ATLAS VTF NOVOLAC GROUT
Two - 5-gal. pails of Resin (40 lb. [18.1 kg.] ea.)
One - 5-gal. pail of Hardener (36 lb. [16.3 kg.])
ATLAS VTF Filler - 50 lb. (22.7 kg.) bag
ATLAS VTF Fine - 50 lb. (22.7 kg.) bag

ESTIMATING
Due to the wide range of tile sizes and joint configurations, it is difficult to publish standard coverage information. We do have guidelines and can assist with theoretical material requirements based on specific project information. Please contact ATLAS' Technical Service Department for more information.

TEMPERATURE DURING APPLICATION
The best temperature range for the application of most ATLAS products is between 70°F (21°C) and 85°F (29°C). Do not apply when room temperature is below 60°F (16°C) or above 100°F (38°C) or in direct sunlight.

MIX RATIO OF THE ATLAS VTF NOVOLAC GROUT

ATLAS VTF NOVOLAC GROUT	Weight	Volume
ATLAS VTF NOVOLAC GROUT Resin	20 lb (9.0 kg.)	278 fl. oz. (8.21 liters)
ATLAS VTF NOVOLAC GROUT Hardener	9 lb. (4.0 kg.)	140 fl. oz. (4.13 liters)

APPLICATION OF THE ATLAS VTF NOVOLAC GROUT
1. Do not proceed until the ATLAS VTF SETTING BED has been allowed to set long enough to support foot traffic.
2. Disperse ATLAS VTF FILLER over the surface of the floor. Sweep it into the open joints. Be certain the joints are full. Sweep away as much excess filler as possible.
3. Mix ATLAS VTF NOVOLAC GROUT RESIN and HARDENER per the stated ratio. Pour the material on the floor and slowly work the materials over the joints with a rubber squeegee. Continue to work the fresh material over the joints to allow the joints to become fully saturated. Remove excess.
4. Lightly broadcast ATLAS VTF FINE on the surface of the floor. Approximately one pound of material should cover 10 to 15 square feet.
5. Use a Raimondi 219 Maxitinita machine with grouting paddles to power grout the floor. Remove power grout residue using a squeegee.
6. Lightly sprinkle the floor with water. We suggest the use of a conventional "garden-type" sprayer. Use enough water to emulsify the resin and hardener. Use the Raimondi machine with nylon buffing pad (3M 5300 blue cleaning pad) to begin cleaning the floor. Remove residue using a squeegee.
7. Repeat Step 6 with a clean white pad (3M 4100) and remove residue with a squeegee a second time.
8. Remove any remaining residue with a mop or cellulose sponge. Use warm water with a small amount of dish detergent and change the water frequently. Apply sufficient pressure to remove residue but not enough to remove grout from the joints. Repeat cleaning until the surface is free of haze.

TYPICAL WORKING AND SETTING TIMES OF THE ATLAS VTF NOVOLAC GROUT

Temperature	Working Time	Support Foot Traffic
60°F (16°C)	45 minutes	16 hours
75°F (24°C)	35 minutes	14 hours
85°F (29°C)	20 minutes	12 hours

NOTE: ATLAS makes it a practice to continuously update and enhance our CCM (Corrosion Resistant Construction Materials) products. For the most recent version of any Data Sheet, please visit our Web site at www.atlasmin.com.

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CLEANING OF THE TOOLS AND EQUIPMENT

Nylon pad, soap and warm water will remove the materials referred to in this Data Sheet from mixing tools and equipment if cleaning is done immediately after use. Solvents, such as methyl ethyl ketone, toluene or xylene, will have to be used after the material has begun to harden. Fully hardened material will have to be removed by mechanical means.

Dispose of residues and wastes in accordance with the directions in the Material Safety Data Sheets and government regulations.

STORAGE AND SHELF LIFE

Store all materials in a cool, dry place. Keep out of direct sunlight. In unopened, original containers most ATLAS materials can be stored for a minimum of one year.

PRECAUTIONS

The materials described herein are for industrial use only. They contain materials that present handling and potential health hazards. Consult Material Safety Data Sheets and the container labels for complete precautionary information before using.

TECHNICAL SERVICES

ATLAS maintains a staff of Technical Service Representatives who are available to assist you with the use of ATLAS products. Please contact us to discuss specific requirements.

WARRANTY

ATLAS warrants that its products will be free from defects in workmanship and materials under normal use for a period of one (1) year from the date of shipment by ATLAS (provided the products are installed before the expiration of the shelf life). THERE ARE NO EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR THE PURPOSE FOR THIS PRODUCT WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. ATLAS' LIABILITY FOR ALLEGED BREACH OF THIS WARRANTY SHALL BE LIMITED TO REPAIR OR REPLACEMENT OF THE DEFECTIVE PRODUCT (BUT NOT INCLUDING REMOVAL OF THE DEFECTIVE PRODUCT OR INSTALLATION OF REPLACEMENT PRODUCTS). ATLAS SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES DURING THE WARRANTY PERIOD OR THEREAFTER. **ATLAS' WARRANTY IS VOIDED IF PAYMENT FOR PRODUCT IS NOT RECEIVED IN FULL.**

CHEMICAL RESISTANCE OF ATLAS® VTF NOVOLAC GROUT (3-51PI^{CR})

	80°F	140°F
Acetic Acid, to 10%	R	R
Acetic Acid, 10% to 50%	C	N
Acetone	C	N
Alum or Aluminum Sulfate	R	R
Ammonium Chloride, Nitrate, Sulfate	R	R
Ammonium Hydroxide, to 30%	R	R
Aniline	C	N
Aqua Regia	N	N
Barium Chloride, Sulfate	R	R
Beer	R	R
Benzene	R	R
Benzene Sulfonic Acid, 10%	R	R
Benzoic Acid	R	R
Black Liquor	R	R
Bleaching Liquor, to 2%	R	R
Bleaching Liquor, Concentrated	N	N
Boric Acid	R	C
Butter	R	R
Butyl Acetate	R	R
Butyl Alcohol	R	R
Butyric Acid	C	N
Calcium Chloride, Nitrate, Sulfate	R	R
Calcium Hydroxide	R	R
Calcium Hypochlorite	R	C
Casein	R	R
Chlorine, Dry	C	-
Chlorine, Wet	C	-
Chlorine Water	R	-
Chloroacetic Acid, to 10%	C	C
Chloroform	R	-
Chromic Acid, to 30%	R	C
Citric Acid, to 10%	R	R
Copper Chloride, Nitrate, Sulfate	R	R
Ether	R	-
Ethyl Acetate	C	-
Ethyl Alcohol	R	C
Ethylene Dichloride	C	-
Ethylene Glycol	R	R
Fatty Acids	C	C
Ferric Chloride, Nitrate, Sulfate	R	R
Fluosilicic Acid, 30%	RA	RA
Formaldehyde, to 37%	R	R
Formic Acid, 10%	R	C
Grape Juice	R	R
Hydrobromic Acid, to 20%	R	R
Hydrochloric Acid, to 37%	R	R
Hydrofluoric Acid, to 20%	RA	RA
Hydrogen Peroxide	R	-

	80°F	140°F
Hypochlorous Acid, to 5%	R	C
Jet Fuel	R	-
Kerosene	R	-
Lactic Acid, to 10%	R	C
Lactic Acid, above 10%	N	N
Lard	R	R
Lux Liquid	R	R
Magnesium Chloride, Nitrate, Sulfate	R	R
Maleic Acid	C	C
Methyl Alcohol	C	C
Methyl Ethyl Ketone	N	-
Methylene Chloride	N	-
Milk	R	R
Mineral Oil	R	R
Nickel Chloride, Nitrate, Sulfate	R	R
Nitric Acid, to 30%	R	R
Oleic Acid	C	C
Oxalic Acid	R	C
Peracetic Acid, 1%	R	R
Perchloroethylene	C	C
Petroleum	R	R
Phenol, to 5%	C	-
Phosphoric Acid	R	R
Picric Acid, to 5%	R	N
Potassium Chloride, Nitrate, Sulfate	R	R
Potassium Hydroxide, to 25%	R	R
Potassium Hydroxide, 25% to 50%	RA	RA
Salt, Saturated Solution	R	R
Sodium Bicarbonate, Carbonate	R	R
Sodium Chloride, Nitrate, Phosphate	R	R
Sodium Sulfate, Sulfide	R	R
Sodium Hydroxide, to 25%	R	R
Sodium Hydroxide, 25% to 50%	RA	RA
Sodium Hypochlorite, to 6%	R	R
Sodium Hypochlorite, 6% to 12%	R	-
Stannic Chloride	R	N
Stearic Acid	C	C
Sugar, Saturated Solution	R	R
Sulfuric Acid, to 93%	R	C
Sulfurous Acid, to 10%	R	R
Toluene	R	R
Toluene Sulfonic Acid	R	C
Tomato Juice	R	R
1,1,1-Trichloroethane	R	R
Trisodium Phosphate	R	R
Turpentine	R	-
Urea, to 20%	R	R
Urine	R	C

	80°F	140°F
Vegetable Oil	R	R
Vinegar	R	R
Water, Fresh	R	R
Water, Distilled	R	R
Water and Sewage	R	R
Xylene	R	R
Zinc Chloride, Nitrate, Sulfate	R	R

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KEY

R - Recommended
N - Not Recommended
C - Conditional; May be serviceable if the contaminant is immediately removed or washed off the surface.
A - Silica Filler may be attacked.

Note - The information presented in the chemical resistance tables is based on judgments derived from laboratory testing and field service performance. The tables have been prepared as a guide to performance. No guarantee of results is made or implied and no liability in connection with this information is assumed. In actual service, floors and walls protected with ATLAS VTF NOVOLAC GROUT are subjected to splash and spillage, as well as dilution effects of wash water, mixing with other solutions, wetting and drying cycles, temperature cycling and cleaning procedures. Contact with certain concentrated acids may cause the surface of ATLAS VTF NOLVOLAC GROUT to change color. This color change will not affect the chemical resistance. For immersion service, contact ATLAS for recommendation. The information presented herein should be supplemented by in-service testing. The data furnished in the tables may be revised on the basis of further testing.