



Atlas Minerals & Chemicals, Inc.



DATA SHEET

3-42PI (4-14²)
Supersedes 3-42PI (5-13)

REZKLAD® WALL GROUT

DESCRIPTION

REZKLAD WALL GROUT is a solvent free, resin based grout for pointing the joints of structural glazed facing tile and ceramic wall tile.

TYPICAL USES

REZKLAD WALL GROUT is recommended as a pointing grout for structural glazed facing tile, quarry and ceramic wall tile. It can also be used as a mortar for brick construction of floors, trenches and sumps. The water washing feature of REZKLAD WALL GROUT eliminates the need for special masking or waxing of the brick or tile to prevent staining. The low odor of the grout permits application in plants without special ventilation.

The adhesive strength of REZKLAD WALL GROUT holds in a joint even when scrubbed, hosed down or steam cleaned. It is stain resistant, non-toxic and low in absorption. REZKLAD WALL GROUT is resistant to bacterial growth and sanitizing cleaning solutions.

REZKLAD WALL GROUT is used for a variety of industries and applications:

- Food Processing
- Beverage
- Dairy
- Hospitals
- Commercial Kitchens
- Shopping Malls
- Pharmaceutical
- Schools
- Laboratories
- Locker Rooms
- Correctional Facilities

For the food processing and beverage industries, REZKLAD WALL GROUT is certifiable for use in USDA inspected facilities.

CHEMICAL RESISTANCE

REZKLAD WALL GROUT is resistant to dilute acids, alkalis, salts and many cleaning agents. It complies with the specifications of ANSI A118.3 for chemical resistant water cleanable tile-setting and grouting epoxy.

AVAILABLE COLORS

Standard colors are gray and white. Custom colors are available upon request.

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUE
Density	ASTM C905	114 lb./cu. ft. (1.83 g./cc.)
Bond Strength, 7 days @ 77°F (25°C)	ASTM C321	Brick fails
Tensile Strength, 7 days @ 77°F (25°C)	ASTM C307	2,450 psi. (17.0 MPa)
Compressive Strength, 7 days @ 77°F (25°C)	ASTM C579	12,000 psi. (82.7 MPa)
Flexural Strength, 7 days @ 77°F (25°C)	ASTM C580	5,000 psi. (34.5 MPa)
Coefficient of Thermal Exp., in./in./°F (cm./cm./°C)	ASTM C531	3.7 x 10 ⁻⁵ (6.7 x 10 ⁻⁵)
Water Absorption	ASTM C413	< 0.2%
Temperature Resistance Continual Intermittent		140°F (60°C) 212°F (100°C)
Linear Shrinkage	ASTM C531	< 0.3%

PACKAGING

REZKLAD WALL GROUT

18 lb. 3 oz. (8.2 kg.) Unit Consisting of:

- One - 1/2-gal. can of Resin (2 lb. 13 oz. [1.3 kg.])
- One - 1-qt. can of Hardener (1 lb. 7 oz. [652 g.])
- One - bag of Powder (13 lb. 15 oz. [6.3 kg.])
- Nylon Scrub Pad, Rubber Gloves

289 lb. 14 oz. (131.5 kg.) Unit Consisting of:

- One - 5-gal. pail of Resin (44 lb. 9 oz. [20.2 kg.])
- One - 5-gal. pail of Hardener (22 lb. 5 oz. [10.1 kg.])
- Eight - bags of Powder (27 lb. 14 oz. [12.6 kg.]) ea.
- Nylon Scrub Pads, Rubber Gloves

TEMPERATURE DURING APPLICATION

Store REZKLAD WALL GROUT between 70°F (21°C) and 80°F (27°C) for 24 hours prior to use. The best working characteristics of the mortar will be attained when the temperature of the air, masonry units and REZKLAD WALL GROUT are between 65°F (18°C) and 85°F (29°C). Minimum temperature for installation is 60°F (16°C).

MIXING OF THE REZKLAD WALL GROUT

Mixing of the components should be with a KOL type mixer with a 5-gallon capacity. The mixing speed should be between 60 and 75 RPM.

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.

ESTIMATING TABLE - REZKLAD WALL GROUT

WALL TILE

Face Size	18 lb. 3 oz. Unit 1/4" Wide x Full Depth Joint Square Feet per Unit			18 lb. 3 oz. Unit 3/8" Wide Joints Square Feet per Unit	
	1/4" Depth	3/8" Depth	1/2" Depth	3/8" Depth	1/2" Depth
2-1/4" x 8"	60 sq. ft.	40 sq. ft.	30 sq. ft.	28 sq. ft.	21 sq. ft.
4" x 8"	87 sq. ft.	58 sq. ft.	43 sq. ft.	40 sq. ft.	30 sq. ft.
4-1/4" x 4-1/4"	70 sq. ft.	47 sq. ft.	35 sq. ft.	32 sq. ft.	24 sq. ft.
5-1/16" x 7-3/4"	99 sq. ft.	66 sq. ft.	49 sq. ft.	45 sq. ft.	34 sq. ft.
5-1/16" x 11-3/4"	114 sq. ft.	76 sq. ft.	57 sq. ft.	52 sq. ft.	39 sq. ft.
6" x 6"	97 sq. ft.	65 sq. ft.	48 sq. ft.	44 sq. ft.	33 sq. ft.
7-5/8" x 7-5/8"	122 sq. ft.	81 sq. ft.	61 sq. ft.	55 sq. ft.	41 sq. ft.
7-5/8" x 11-5/8"	146 sq. ft.	97 sq. ft.	73 sq. ft.	66 sq. ft.	49 sq. ft.
7-3/4" x 7-3/4"	124 sq. ft.	83 sq. ft.	62 sq. ft.	56 sq. ft.	42 sq. ft.
7-3/4" x 11-3/4"	148 sq. ft.	99 sq. ft.	74 sq. ft.	67 sq. ft.	50 sq. ft.
7-3/4" x 15-3/4"	165 sq. ft.	110 sq. ft.	82 sq. ft.	74 sq. ft.	56 sq. ft.
8" x 8"	128 sq. ft.	85 sq. ft.	64 sq. ft.	58 sq. ft.	43 sq. ft.

18 lb. 3 oz. (8.2 kg.) Unit

- Combine the contents of the 1/2-gallon can (2 lb. 13 oz. [1.3 kg.]) of REZKLAD WALL GROUT Resin with the 1-quart can (1 lb. 7 oz. [652 g.]) of REZKLAD WALL GROUT Hardener in the 5-gallon capacity mechanical mixer. Mix thoroughly for approximately two minutes.
- Slowly add the 13 lb. 15 oz. (6.3 kg.) bag of REZKLAD WALL GROUT Powder.
- Mix the combined components for approximately two minutes or until all the powder is thoroughly dispersed.

Note: For brick joint applications, remove approximately 1 lb. 6 oz. (624 g.), by weight, or 14 fl. oz. (0.42 liters), by volume, of powder to adjust the grout consistency. For setting bed applications, remove approximately 2 lb. 4 oz. (1.0 kg.), by weight, or 22 fl. oz. (0.65 liters), by volume, of powder to adjust the grout consistency.

289 lb. 14 oz. (131.5 kg.) Unit

- Evenly divide the contents of one 27 lb. 14 oz. (12.6 kg.) bag of REZKLAD WALL GROUT Powder into two equal parts by volume using two clean, dry 5-gallon pails.
- Combine 37 fluid ounces (1.10 liters) of REZKLAD WALL GROUT Resin and 22 fluid ounces (0.65 liters) REZKLAD WALL GROUT Hardener in the 5-gallon capacity mechanical mixer. Mix thoroughly for approximately two minutes.

- Slowly add a 1/2 bag of REZKLAD WALL GROUT Powder, 13 lb. 15 oz. (6.3 kg.), as prepared in Step (a.).
- Mix the combined components for approximately two minutes or until all the powder is thoroughly dispersed.

Note: For brick joint applications, remove approximately 1 lb. 6 oz. (624 g.), by weight, or 14 fl. oz. (0.42 liters), by volume, from each pail of powder as prepared in Step (a.) to adjust the grout consistency. For setting bed applications, remove approximately 2 lb. 4 oz. (1.0 kg.), by weight, or 22 fl. oz. (0.65 liters), by volume, from each pail of powder as prepared in Step (a.) to adjust the grout consistency.

APPLICATION OF THE REZKLAD WALL GROUT

REZKLAD WALL GROUT can be used as a pointing grout for wall tile, a thin set bond coat, a bed joint over an impervious membrane, or as a grout for chemical resistant brick construction with RED FURNANE[®] SETTING BED, Data Sheet 5-55PI.

POINTING GROUT: Use standard wall pointing techniques for filling the joints of quarry, ceramic or structural glazed face tile. Maximum joint width for this application is 3/8" (9.5 mm.).

BRICK JOINTS: Install the grout using conventional bricklaying techniques. Apply the grout to two sides of the brick forming a "V" profile. Place the brick on the setting bed and slide it into place to attain a 1/8"

MIX RATIO CHART - REZKLAD WALL GROUT (POINTING GROUT)

REZKLAD WALL GROUT	Weight	Volume
REZKLAD WALL GROUT Resin	2 lb. 13 oz. (1.3 kg.)	37 fl. oz. (1.10 liters)
REZKLAD WALL GROUT Hardener	1 lb. 7 oz. (653 g.)	22 fl. oz. (0.65 liters)
REZKLAD WALL GROUT Powder*	13 lb. 15 oz. (6.3 kg.)	13 lb. 15 oz. (6.3 kg)
Batch Size	18 lb. 3 oz. (8.2 kg.)	0.15 cu. ft.

*For brick joint applications, remove approximately 1 lb. 6 oz. (624 g.), by weight, or 14 fl. oz. (0.42 liters), by volume, of powder to adjust the grout consistency. For setting bed applications, remove approximately 2 lb. 4 oz. (1.0 kg.), by weight, or 22 fl. oz. (0.65 liters), by volume, of powder to adjust the grout consistency.

TYPICAL WORKING AND SETTING TIMES OF THE REZKLAD WALL GROUT

Temperature	Working Time	Support Foot Traffic
45°F (7°C)	65 minutes	24 hours
60°F (16°C)	55 minutes	9 hours
75°F (24°C)	45 minutes	7-1/2 hours
85°F (29°C)	25 minutes	4-1/2 hours

(3.2 mm.) wide joint. Strike excess mortar before the grout begins to set.

BOND COAT OR BED JOINT: Apply the grout with a 3/16" V-notched trowel held at a 45 degree angle. Place sufficient amount of grout to provide a continuous bond coat to the specified thickness. Do not apply more grout than can be covered in 20 to 30 minutes at 75°F (24°C) for REZKLAD WALL GROUT.

CLEANING OF THE REZKLAD WALL GROUT

The removal of excess grout must follow closely after the application of the grout.

Recommendations for Cleaning:

1. A small amount of liquid detergent added to warm water will aid the cleaning process.
2. Complete the cleaning of the brick or tile within the working time listed on the "Typical Working & Setting Times" chart.
3. Change cleaning water frequently.
4. Rubber gloves should be worn at all times, including cleaning.
5. Apply a small amount of warm water to the surface of the brick or tile.
6. Using a nylon scrub pad or cellulose sponge, loosen the grout residue from the brick or tile with a circular motion until a white froth appears.
7. Remove the froth with a cellulose sponge. Apply sufficient pressure to remove residue but not enough to pull grout from the joints. Frequently rinse and clean the sponge. Repeat cleaning until surface is free of any haze. A clean cellulose sponge may be used for final touch up cleaning.

Structural Glazed Facing Tile, Ceramic Tile and Quarry Tile Walls:

A resin rich surface can be achieved by wiping the joints with a rag dampened with mineral spirits before the grout begins to harden. NEVER allow the REZKLAD WALL GROUT to remain on the tile for more than 45 minutes. If the grout cures on the tile, it must be removed by mechanical means which can damage the face of the tile.

After cleaning is completed, the area must be kept free of liquids and contaminants for at least 16 hours at 77°F (25°C) for REZKLAD WALL GROUT.

CLEANING OF TOOLS AND EQUIPMENT

Steel wool, 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 Safety Data Sheets and government regulations.

STORAGE AND SHELF LIFE

Store all materials in a cool, dry environment. Keep all materials out of direct sunlight. Ideal storage temperature is 75°F (24°C). Protect from freezing. In unopened original containers, the materials referred to in this Data Sheet have a shelf life of approximately one year.

PRODUCT SPECIFICATION

The grout shall be REZKLAD WALL GROUT as manufactured by Atlas Minerals & Chemicals, Inc. and be certifiable for use in USDA inspected facilities and comply with the requirements of ASTM C395. The mortar shall be resistant to organic and inorganic acids, organic solvents. During the installation, the grout shall be low odor, water cleanable and not require a wax coating for the surface of the masonry units.

PRECAUTIONS

Contact with certain concentrated acids may cause the surface of REZKLAD WALL GROUT to change color. This color change will not affect the chemical resistance.

The materials referred to in this Data Sheet are for Industrial Use Only. They contain materials that present handling and potential health hazards. Consult Safety Data Sheets and the container labels for complete precautionary information.

TECHNICAL SERVICES

ATLAS maintains a staff of Technical Service Representatives who are available to assist you with the use of ATLAS products. In the event of difficulties with the application of ATLAS materials, the installation should be stopped immediately and ATLAS' Technical Service Department consulted for assistance.

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 REZKLAD® WALL GROUT (3-42PI)

	80°F	140°F
Acetic Acid, to 10%	R	C
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 10%	R	R
Ammonium Hydroxide, 10% to 30%	R	C
Aniline	N	N
Aqua Regia	N	N
Barium Chloride, Sulfate	R	R
Beer	R	R
Benzene	N	N
Benzene Sulfonic Acid, 10%	R	C
Benzoic Acid	R	C
Black Liquor	R	N
Bleaching Liquor, to 2%	C	N
Bleaching Liquor, Concentrated	N	N
Boric Acid	R	R
Butyl Acetate	C	N
Butyl Alcohol	C	N
Butyric Acid	C	N
Calcium Chloride, Nitrate, Sulfate	R	R
Calcium Hydroxide	R	R
Calcium Hypochlorite	R	C
Chlorine, Dry	C	-
Chlorine, Wet	N	-
Chlorine Water	C	-
Chloroacetic Acid, to 10%	C	N
Chloroform	C	N
Chromic Acid, to 5%	C	N
Citric Acid, to 10%	R	C
Copper Chloride, Nitrate, Sulfate	R	R
Ether	C	N
Ethyl Acetate	N	N
Ethyl Alcohol	R	C
Ethylene Dichloride	N	N
Ethylene Glycol	R	C
Fatty Acids	N	N
Ferric Chloride, Nitrate, Sulfate	R	C
Fluosilicic Acid, 30%	A	A
Formaldehyde, to 37%	C	N
Formic Acid, 10%	R	C
Grape Juice	C	N
Hydrobromic Acid, to 20%	C	N
Hydrochloric Acid, to 37%	C	N
Hydrofluoric Acid, to 20%	A	A
Hydrogen Peroxide	R	-

	80°F	140°F
Hypochlorous Acid, to 5%	C	N
Jet Fuel	R	-
Kerosene	R	-
Lactic Acid, to 10%	C	C
Lactic Acid, above 10%	N	N
Lard	R	R
Lux Liquid	R	R
Magnesium Chloride, Nitrate, Sulfate	R	R
Maleic Acid	N	N
Methyl Alcohol	C	N
Methyl Ethyl Ketone	N	-
Methylene Chloride	N	-
Milk	R	R
Mineral Oil	R	R
Nickel Chloride, Nitrate, Sulfate	R	R
Nitric Acid, to 40%	N	N
Oleic Acid	C	N
Oxalic Acid	C	N
Perchloroethylene	N	N
Petroleum	R	N
Phenol, to 5%	C	-
Phosphoric Acid	R	C
Picric Acid, to 5%	C	N
Potassium Chloride, Nitrate, Sulfate	R	R
Potassium Hydroxide, to 25%	R	R
Potassium Hydroxide, 25% to 50%	RA	RA
Sodium Bicarbonate, Carbonate	R	R
Sodium Chloride, Nitrate, Phosphate	R	R
Sodium Hydroxide, to 25%	R	R
Sodium Hydroxide, 25% to 50%	RA	RA
Sodium Hypochlorite, to 6%	R	C
Sodium Hypochlorite, 6% to 16%	N	N
Sodium Sulfate, Sulfide	R	R
Stannic Chloride	R	N
Stearic Acid	C	N
Sugar, Saturated Solution	R	R
Sulfuric Acid, to 10%	R	C
Sulfuric Acid, 10% to 50%	C	N
Sulfuric Acid, above 50%	N	N
Sulfurous Acid, to 10%	R	C
Toluene	N	N
Toluene Sulfonic Acid	R	C
Tomato Juice	C	N
1,1,1-Trichloroethane	N	N
Trisodium Phosphate	R	R
Turpentine	R	-
Urea, to 20%	R	R

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

(4-14²)

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 REZKLAD WALL 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. 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.