



Atlas Minerals & Chemicals, Inc.



DATA SHEET

3-64PI (1-98²)
Supersedes 3-64PI (9-95)

REZKLAD® E-JOINT SEALANT

DESCRIPTION

REZKLAD E-JOINT SEALANT is a two-component system consisting of a resin and a hardener which form a pourable joint sealant when mixed together. It is designed for use when abutting dissimilar flooring materials, such as jointing brick, tile or monolithic floors to concrete or metal. REZKLAD E-JOINT SEALANT is designed for use in heavy traffic areas. The cured material exhibits excellent impact resistance and adhesion to steel, aluminum, glass ceramics, concrete and wood. REZKLAD E-JOINT SEALANT is resistant to mild acids, alkalis, corrosive salts, alcohols and aliphatic hydrocarbons. REZKLAD E-JOINT SEALANT is certifiable for use in USDA inspected facilities. REZKLAD E-JOINT SEALANT LT is formulated for applications when the substrate and ambient temperatures are between 35°F (2°C) and 65°F (18°C).

AVAILABLE COLORS

Standard colors are black, gray and red.

PACKAGING - REZKLAD E-JOINT SEALANT

11 lb. 4 oz. (5.1 kg.) Unit Consisting of:
One - 1-Gal. can Resin (7 lb. 8 oz. [3.4 kg.])
One - 1/2-Gal. can Hardener (3 lb. 12 oz [1.7 kg.])

REZKLAD E-JOINT SEALANT LT

13 lb. 2 oz. (6.0 kg.) Unit Consisting of:
One - 1-Gal. can Resin (7 lb. 8 oz. [3.4 kg.])
One - 1-Gal. can Hardener (5 lb. 10 oz. [2.6 kg.])

SURFACE PREPARATION

Abrasive grit blasting is recommended for preparing concrete and metal surfaces. The substrate must be structurally sound, clean and dry.

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUE	
		E-Joint Sealant	E-Joint Sealant LT
Density	ASTM C905	84.3 lb./cu. ft. (1.35 g./cc.)	88.0 lb./cu. ft. (1.41 g./cc.)
Tensile Strength, 7 days @ 77°F (25°C)	ASTM D412	1,100 psi. (8.0 MPa)	400 psi. (2.76 MPa)
Tensile Elongation 7 days @ 77°F (25°C)	ASTM D412	10%	65%
Coefficient of Thermal Exp., in./in./°F (cm./cm./°C)	ASTM C531	7.5 x 10 ⁻⁵ (14 x 10 ⁻⁵)	N/A
Hardness, Shore D-2	ASTM D2240	55-65	26-35

For additional information, refer to Surface Preparation, Data Sheet PS-30.

MIXING AND APPLICATION

REZKLAD E-JOINT SEALANT

Make sure that the temperature of the materials is 65°F (18°C) or warmer before mixing. Combine 1/2 the contents of the 7 lb. 8 oz (3.4 kg) can of REZKLAD E-JOINT SEALANT Resin and 1/2 the contents of the 3 lb. 12 oz. (1.7 kg) can of REZKLAD E-JOINT SEALANT Hardener in a suitable mixing container. Mix for approximately two minutes using a hand drill (300 to 500 RPM) equipped with a "Jiffy" mixer or Indco, Inc. General Purpose mixer, Cat. No. GPM342. Be sure that joints into which this mixture is poured are clean and dry. Pour into place. This mixture will remain workable for approximately 20 minutes at 77°F (25°C) and will withstand foot traffic after four hours. Do not expose to chemical service for seven days.

REZKLAD E-JOINT SEALANT LT

Make sure that the temperature of the materials is 65°F (18°C) or warmer before mixing. Combine 1/2 the contents of the 7 lb. 8 oz. (3.4 kg.) can of REZKLAD E-JOINT SEALANT Resin and 1/2 the

ESTIMATING OF THE REZKLAD E-JOINT SEALANT AND REZKLAD E-JOINT SEALANT LT*

Joint Width	REZKLAD E-JOINT SEALANT Linear Feet per Unit Joint Depth				REZKLAD E-JOINT SEALANT LT Linear Feet per Unit Joint Depth			
	1/4"	3/8"	1/2"	3/4"	1/4"	3/8"	1/2"	3/4"
	1/4"	310 ft.	205 ft.	155 ft.	100 ft.	335 ft.	225 ft.	170 ft.
3/8"	205 ft.	135 ft.	100 ft.	70 ft.	225 ft.	150 ft.	110 ft.	75 ft.
1/2"	155 ft.	100 ft.	80 ft.	50 ft.	170 ft.	110 ft.	85 ft.	55 ft.
3/4"	100 ft.	70 ft.	50 ft.	35 ft.	110 ft.	75 ft.	55 ft.	35 ft.

* A joint width to joint depth ratio of 2 to 1 is recommended.

contents of the 5 lb. 10 oz. (2.6 kg.) can of REZKLAD E-JOINT SEALANT LT Hardener in a suitable mixing container. Mix for approximately two minutes using a hand drill (300 to 500 RPM) equipped with a "Jiffy" mixer or Indco, Inc. General Purpose mixer, Cat. No. GPM342. Be sure that joints into which this mixture is poured are clean and dry. Pour into place. This mixture will remain workable for approximately 20 minutes at 45°F (7°C) and will withstand foot traffic after four hours at 35°F to 65°F (2°C to 18°C). Do not expose to chemical service for seven days.

JOINT DESIGN

Consult ATLAS' Engineering Department for design assistance as required. Location of joints, appropriate backup materials and number of joints vary from job to job depending on size of area and conditions to which the installation will be subjected.

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 Material 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 system shall be REZKLAD E-JOINT SEALANT as manufactured by Atlas Minerals & Chemicals, Inc.

PRECAUTIONS

The materials referred to in this Data Sheet 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.

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® E-JOINT SEALANT (3-64PI)

Acetic Acid, to 5%	G
Acetic Acid, 5% to 10%	F
Acetic Acid, 10% to 50%	C
Acetone	C
Alum or Aluminum Sulfate	E
Ammonium Chloride, Nitrate, Sulfate	E
Ammonium Hydroxide, to 10%	E
Ammonium Hydroxide, 10% to 30%	G
Aniline	N
Animal Oils	C
Bakery Products	G
Barium Chloride, Sulfate	E
Beer	E
Benzene	C
Benzene Sulfonic Acid, 10%	G
Benzoic Acid	G
Black Liquor	E
Boric Acid	E
Bromine Water	C
Butter	C
Butyl Acetate	C
Butyl Alcohol	C
Butyric Acid	C
Calcium Chloride, Nitrate, Sulfate	E
Calcium Hydroxide	E
Calcium Hypochlorite	F
Carbonated Water	E
Casein	G
Cheese, all	G
Chlorine, Dry	F
Chlorine, Wet	F
Chlorine Water	E
Chloroacetic Acid, to 10%	C
Chloroform	N
Chromic Acid, to 5%	F
Chromic Acid, 5% to 10%	C
Cider	F
Citric Acid, to 10%	G
Citrus Fruits	E
Coffee	G
Copper Chloride, Nitrate, Sulfate	E
Corn Oil	G
Corn Syrup	G
Egg Yolk	E
Ethyl Acetate	C
Ethyl Alcohol	G
Ethyl Ether	F
Ethylene Dichloride	N

Ethylene Glycol	G
Fatty Acids	C
Ferric Chloride, Nitrate, Sulfate	G
Fluosiilic Acid	C
Formaldehyde	E
Formic Acid, 10%	F
Fruit Extracts	F
Fruit Juices	F
Gasoline	E
Glucose	F
Glycerine	G
Grape Juice	F
Horse Radish	E
Hydrobromic Acid, to 20%	G
Hydrochloric Acid, to 20%	G
Hydrochloric Acid, 20% to 37%	F
Hydrofluoric Acid, to 20%	C
Hydrofluoric Acid, 20% to 70%	N
Hydrofluosilicic Acid	C
Hydrogen Peroxide	G
Hypochoorous Acid, to 5%	F
Ice Cream	E
Jams & Jellies	F
Jet Fuel	E
Kerosene	E
Ketchup	G
Lactic Acid, to 5%	G
Lactic Acid, 5% to 10%	F
Lactic Acid, above 10%	C
Lard	C
Linseed Oil	F
Lux Liquid	E
Magnesium Chloride, Nitrate, Sulfate	E
Magnesium Hydroxide	E
Maleic Acid, 25%	C
Malt	G
Malt Liquors	G
Margarine	C
Methyl Alcohol	G
Methyl Ethyl Ketone	N
Methylene Chloride	N
Milk	E
Mineral Oil	E
Mineral Spirits	E
Molasses	F
Muriatic Acid	F
Mustard	G
Nickel Chloride, Nitrate, Sulfate	E

Nitric Acid, to 5%	F
Nitric Acid, 5% to 10%	C
Oleic Acid	C
Olive Oil	C
Oxalic Acid	G
Pectin	E
Perchloroethylene	C
Petroleum	E
Phenol, to 5%	C
Phosphoric Acid, to 25%	G
Phosphoric Acid, 25% to 50%	F
Phosphoric Acid, above 50%	C
Pickles	E
Picric Acid, to 5%	G
Potassium Bicarbonate, Carbonate	E
Potassium Chloride, Nitrate, Sulfate	E
Potassium Hydroxide, to 25%	E
Potassium Hydroxide, 25% to 50%	F
Salad Oils	C
Salicylic Acid	G
Shortening	C
Silver Nitrate	G
Skydrol	G
Smokehouse Residues	F
Sodium Bicarbonate, Carbonate	E
Sodium Bisulfate, Sulfate	E
Sodium Chloride, Nitrate, Phosphate	E
Sodium Hydroxide, to 25%	E
Sodium Hydroxide, 25% to 50%	F
Sodium Hypochlorite	F
Sodium Sulfide, Sulfite	G
Sodium Thiosulfate	E
Soft Drink Concentrates	C
Soft Drinks	G
Soups	E
Soya Oil	C
Stearic Acid	G
Sugar, Saturated Solution	F
Sulfuric Acid, to 20%	G
Sulfuric Acid, 20% to 50%	F
Sulfuric Acid, above 50%	C
Sulfurous Acid	G
Syrup	C
Tannic Acid	G
Tartaric Acid	G
Tea	E
Toluene	F
Toluene Sulfonic Acid	F

(1-98²)

KEY

- E - Excellent
- G - Good
- F - Fair
- N - Not Recommended
- C - Conditional; May be serviceable if the contaminant is immediately removed or washed off the surface.

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 E-JOINT SEALANT 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.