



3-701PI (8-23) Supersedes 3-701PI (6-19)

UREKLAD[®] JOINT SEALANT / UREKLAD[®] JOINT SEALANT VERTICAL GRADE

DESCRIPTION

UREKLAD JOINT SEALANT and UREKLAD JOINT SEALANT VERTICAL GRADE are chemical resistant expansion joint sealants.

TYPICAL USES

UREKLAD JOINT SEALANT and UREKLAD JOINT SEALANT VERTICAL GRADE possess excellent elongation, compressibility and abrasion resistance. They have excellent bond strength to numerous substrates and thermal resistance from -10°F (-24°C) to 200°F (95°C). UREKLAD JOINT SEALANT and UREKLAD JOINT SEALANT VERTICAL GRADE are certifiable for use in USDA inspected facilities.

CHEMICAL RESISTANCE

UREKLAD JOINT SEALANT and UREKLAD JOINT SEALANT VERTICAL GRADE are resistant to many dilute solutions of acids, alkalies and salts. Refer to the chemical resistance chart for specific information.

AVAILABLE COLORS

Standard colors of UREKLAD SEALANTS are beige, black, gray and red.

PACKAGING AND COVERAGE ATLAS[®] EXPANSION JOINT PRIMER

1-quart can (1 lb. 12 oz. [794 g.]) Coverage: 450 linear feet (137 m.) per can

PHYSICAL PROPERTIES

PROPERTY	TEST TYPICAL VALUE		
PROPERTY	METHOD	UJS	UJSVG
Density	ASTM C905	70.5 lb./cu. ft. (1.13 g./cc.)	73.0 lb./cu. ft. (1.17 g./cc.)
Tensile Strength, 7 days @ 77ºF (25ºC)	ASTM D412	1,200 psi. (8.27 MPa)	1,200 psi. (8.27 MPa)
Tensile Elongation, 7 days @ 77ºF (25ºC)	ASTM D412	100%	85%
Temperature Resistance		-10°F to 200°F (-24°C to 95°C)	-10°F to 200°F (-24°C to 95°C)
Hardness, Shore A	_	90	90

DATA SHEET

REZKLAD[®] E-CONCRETE PRIMER

1/2-Gallon Unit (3 lb. 7 oz. [1.6 kg.]) Consisting of: One - 1/2-gal. can of Resin (2 lb. 8 oz. [1.1 kg.]) One - 1-pt. can of Hardener (15 oz. [425 g.]) Coverage: Approx. 100 sq. ft. (9.3 m²) per unit

UREKLAD JOINT SEALANT

1-Gallon Unit (6 lb. 7 oz. [2.9 kg.]) Consisting of: One - 1-gal. can of Component A (4 lb. 7 oz. [2.0 kg.]) One - 1-qt. can of Component B (2 lb. [908 g.])

UREKLAD JOINT SEALANT VERTICAL GRADE

1-Gallon Unit (8 lb. 14 oz. [4.0 kg.]) Consisting of: One - 1-gal. can of Component A (6 lb. 14 oz. [3.1 kg.]) One - 1-qt. can of Component B (2 lb. [908 g.])

UREKLAD CLEANING SOLVENT

1-gal. can (6 lb. 8 oz. [2.9 kg.]) 5-gal. pail (32 lb. 8 oz. [14.7 kg.])

SURFACE PREPARATION

Substrates must be structurally sound, clean, dry and free of all contaminants, such as sealers, curing compounds, coatings, oil, dirt, dust and water. Previously applied coatings or paint must be removed.

ESTIMATING TABLE OF THE UREKLAD JOINT SEALANT / UREKLAD JOINT SEALANT VERTICAL GRADE*

Joint Width	UREKLAD JOINT SEALANT Linear Feet per Unit - Joint Depth			UREKLAD JOINT SEALANT VERT. GRADE Linear Feet per Unit - Joint Depth				
wiath	1/4"	3/8"	1/2"	3/4"	1/4"	3/8"	1/2"	3/4"
1/4"	212	141	106	70	216	144	108	72
3/8"	141	94	70	47	144	96	72	48
1/2"	106	70	53	35	108	72	54	36
3/4"	70	47	35	23	72	48	36	24

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

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

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Concrete: Finished concrete must be free of ridges, protrusions, fins, mortar splatter and have a tight laitance-free finish. Abrasive grit blasting or acid washing are recommended surface preparation methods. A finish similar to the profile of 100 to 120 grit sandpaper is suggested.

Metals: Metal surfaces should be grit blasted to a NACE #1 white metal blast cleaned surface finish. When grit blasting is not practical, clean by wire brushing or with abrasive paper and wash with degreasing solvent such as xylene.

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

TEMPERATURE DURING APPLICATION

Store UREKLAD JOINT SEALANT and UREKLAD JOINT SEALANT VERTICAL GRADE at 70°F (21°C) to 80°F (27°C) for 24 hours prior to use. The best working characteristics of the materials will be attained when the temperature of the substrate, air, UREKLAD JOINT SEALANT and UREKLAD JOINT SEALANT VERTICAL GRADE are between 65°F (18°C) and 85°F (29°C). Do not apply when the relative humidity is 75% or higher.

Minimum temperature for installation is 65°F (18°C). At temperatures below 65°F (18°C), the product may not set or cure properly.

MIXING AND APPLICATION OF THE PRIMERS

Both ATLAS EXPANSION JOINT PRIMER and REZKLAD E-CONCRETE PRIMER are acceptable for use prior to placement of UREKLAD JOINT SEALANT.

ATLAS EXPANSION JOINT PRIMER

ATLAS EXPANSION JOINT PRIMER is a one component product. Stir the ATLAS EXPANSION JOINT PRIMER prior to application and apply to the sides of the joint.

	TYPICAL DRYING TIMES OF THE ATLAS EXPANSION JOINT PRIMER	
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Temperature Drying Time		
35°F (2°C)	8 hours	
45°F (7°C)	6 hours	
55°F (13°C)	4 hours	
65°F (18°C)	3 hours	
75°F (24°C)	2 hours	
85°F (29°C)	1-1/2 hours	

REZKLAD E-CONCRETE PRIMER

Mixing of the components should be done with a hand drill equipped with a "Jiffy" type mixer with a mixing speed between 300 and 500 RPM.

- Combine the contents of the cans of REZKLAD E-CONCRETE PRIMER Resin and Hardener in a suitable mixing container. Mix thoroughly for one minute.
- b. Apply with a brush. Allow to dry. Refer to the "Typical Working and Drying Times" chart.

TYPICAL WORKING AND DRYING TIMES OF THE REZKLAD E-CONCRETE PRIMER

Temperature	Working Time	Minimum Drying Time	Maximum Drying Time
65°F (18°C)	35 min.	12 hours	48 hours
75°F (24°C)	25 min.	8 hours	48 hours
85°F (29°C)	15 min.	6 hours	24 hours

MIXING AND APPLICATION OF THE UREKLAD JOINT SEALANT AND UREKLAD JOINT SEALANT VERTICAL GRADE

Mixing of the components should be done with a hand drill equipped with a "Jiffy" type mixer at a mixing speed between 300 and 500 RPM.

- a. Individually stir the contents of both the Component A and Component B cans for approximately one minute prior to blending the components.
- b. Place the contents of the can of Component B in the can of Component A.
- c. Mix the combined components for approximately two minutes. While mixing, scrape along the sides and bottom of the can to ensure complete mixing of the two components.
- d. Transfer the mixture into a clean container, scraping sides and bottom to remove contents. Stir again before installing material.
- e. Apply UREKLAD JOINT SEALANT by pouring into joints. Apply UREKLAD JOINT SEALANT VERTICAL GRADE using a trowel to place material into joints.
- f. Allow to cure, protecting from moisture until set.

TYPICAL WORKING AND DRYING TIMES OF THE UREKLAD JOINT SEALANT / UREKLAD JOINT SEALANT VERTICAL GRADE

	Temperature	Working Time	Urekald Joint Sealant Minimum Drying Time	Ureklad Joint Sealant VG Minimum Drying Time
	70°F (21°C)	40-50 min.	24 hours	24 hours
	75°F (24°C)	35-40 min.	20 hours	20 hours
	85°F (29°C)	30-35 min.	16 hours	16 hours

CLEANING OF TOOLS AND EQUIPMENT

Solvents, such as UREKLAD CLEANING SOLVENT, will remove the materials referred to in this Data Sheet from mixing tools and equipment if cleaning is done immediately after use. 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 system shall be UREKLAD JOINT SEALANT or UREKLAD JOINT SEALANT VERTICAL GRADE 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 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 ANY ΒE LIABLE FOR INCIDENTAL OR THE CONSEQUENTIAL DAMAGES DURING WARRANTY PERIOD OR THEREAFTER. ATLAS' WARRANTY IS VOIDED IF PAYMENT FOR PRODUCT IS NOT RECEIVED IN FULL.

CHEMICAL RESISTANCE OF UREKLAD® JOINT SEALANT / UREKLAD® JOINT SEALANT VERTICAL GRADE (3-701PI)

Acetic Acid, to 5%	F
Acetic Acid, 5% to 50%	С
Acetone	С
Alum or Aluminum Sulfate	E
Ammonium Chloride, Nitrate, Sulfate	E
Ammonium Hydroxide, to 10%	Е
Ammonium Hydroxide, 10% to 30%	F
Aniline	N
Animal Oils	N
Bakery Products	G
Barium Chloride, Sulfate	E
Beer	E
Benzene	
Benzene Sulfonic Acid, 10%	G
Benzoic Acid	G
Black Liquor	G
Boric Acid	E
Bromine Water	C
Butter	G
Butyl Acetate	<u>0</u>
Butyl Alcohol	F
Butyric Acid	N
Calcium Chloride, Nitrate, Sulfate	E
Calcium Hydroxide	G
	<u>G</u> F
Calcium Hypochlorite Carbonated Water	 E
Casein	G
	<u>N</u>
Cheese, all	N
Chlorine, Dry or Wet	
Chlorine Water	G C
Chloroacetic Acid, to 10%	
Chloroform	N
Chromic Acid, to 5%	G
Chromic Acid, 5% to 10%	F
Cider	G
Citric Acid, to 10%	G
Citrus Fruits	<u> </u>
Clorox or Clorox 2 Liquid	E
Coffee	G
Copper Chloride, Nitrate, Sulfate	E
Corn Oil	E
Corn Syrup	G
Egg Yolk	G
Ethyl Acetate	N
Ethyl Alcohol	С
Ethyl Ether	N
Ethylene Dichloride	N
Ethylene Glycol	E

Fatty Acids	C
Ferric Chloride, Nitrate, Sulfate	F
Fluosilicic Acid	<u> </u>
Formaldehyde	F
Formic Acid, 10%	G
Fruit Extracts	Ē
Fruit Juices	G
Gasoline	<u> </u>
Gluconic Acid, 5%	Ē
Glucose	F
Glycerine	Ċ
Grape Juice	G
Horse Radish	G
Hydrobromic Acid, to 20%	G
Hydrochloric Acid, to 20%	G
Hydrochloric Acid, above 20%	<u> </u>
Hydrofluoric Acid, to 20%	G
Hydrofluoric Acid, above 20%	<u> </u>
Hydrofluosilicic Acid, to 20%	G
Hydrogen Peroxide	E
Hypochlorous Acid, to 5%	G
Ice Cream	G
Jams & Jellies	 F
Jet Fuel	N
Kerosene	N
Ketchup	G
Lactic Acid, to 10%	G
Lactic Acid, above 10%	<u>c</u>
Lard	G
Linseed Oil	 N
Lux Liquid	E
Magnesium Chloride, Nitrate, Sulfate	E
Magnesium Hydroxide	E
Maleic Acid, 25%	C
Maleic Acid, 2378	F
Malt Liquors	F
Margarine	G
Methyl Alcohol	<u> </u>
Methyl Ethyl Ketone	N
Methylene Chloride	N
Milk	G
Mineral Oil	G
Mineral Spirits	E
Molasses	F
Muriatic Acid	G
Multatic Acid	G
Nickel Chloride, Nitrate, Sulfate	 F
Nitric Acid, to 5%	G
	0

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Nitric Acid, 5% to 10%	
Oleic Acid	<u>C</u>
Olive Oil	G
Oxalic Acid	C
Pectin	F
Perchloroethylene	C F N C G
Petroleum	С
Phenol, to 5%	С
Phosphoric Acid, to 25%	G
Phosphoric Acid, above 25%	C C
Pickles	С
Picric Acid, to 5%	C
Potassium Bicarbonate, Carbonate	
Potassium Chloride, Nitrate, Sulfate	E
Potassium Hydroxide, to 50%	F
Salad Oils	E
Salicylic Acid	F
Shortening	G
Silver Nitrate	Ē
Skydrol	N
Smokehouse Residues	N
Sodium Bicarbonate, Carbonate	E
Sodium Bisulfate, Sulfate	G
Sodium Chloride, Nitrate, Phosphate	E
Sodium Hydroxide, to 25%	G
	F
Sodium Hydroxide, 25% to 50%	
Sodium Hypochlorite	
Sodium Sulfide, Sulfite	G
Sodium Thiosulfate	E
Soft Drink Concentrates	F
Soft Drinks	E G
Soups	G
Soya Oil	C F
Stearic Acid	F
Sugar, Saturated Solution	F
Sulfuric Acid, to 40%	Е
Sulfuric Acid, above 40%	С
Sulfurous Acid	G
Tannic Acid	С
Tartaric Acid	С
Теа	G
Toluene	Ň
Toluene Sulfonic Acid, 10%	G
Tomato Juice	G
Trichloroethylene	N
Trisodium Phosphate	E
Tung Oil	
Turpentine	 C
	0

Urea	E
Urine	G
Vegetable Oil	E
Vinegar	F
Water, Distilled	E
Water, Fresh	E
Water and Sewage	E
Wine	F
Xylene	Ν
Yeast	С
Zinc Chloride, Nitrate, Sulfate	E
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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 UREKLAD JOINT SEALANT or UREKLAD JOINT SEALANT VERTICAL GRADE 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.