



REZKLAD® E-HI BUILD 115-C

DESCRIPTION

REZKLAD E-HI BUILD 115-C is a high performance, **carbon-filled** novolac epoxy coating for floors and walls. The durable coating is designed for application to concrete and carbon steel substrates. REZKLAD E-HI BUILD 115-C is roller, squeegee or brush applied at thicknesses of 10 mils (0.25 mm.) to 15 mils (0.38 mm.) per coat.

TYPICAL USES

REZKLAD E-HI BUILD 115-C is an easy-to-apply coating based on novolac epoxy resins and specialty hardeners chosen to yield outstanding chemical resistance. The properties of REZKLAD E-HI BUILD 115-C make it ideal for use as a coating for dikes around chemical storage tanks and as a floor coating system in light to medium traffic areas in chemical process facilities, metal processing operations and in certain parts of food and beverage processing plants. REZKLAD E-HI BUILD 115-C is certifiable for use in USDA inspected facilities.

CHEMICAL RESISTANCE

REZKLAD E-HI BUILD 115-C is resistant to organic solvents, such as acetone, benzene, toluene, xylene, methanol, butanol, methyl ethyl ketone and 1,1,1-trichloroethane. It is also resistant to splashes and spills of highly corrosive materials, such as 98% sulfuric acid, 30% nitric acid and 20% chromic acid, as well as oxidizing agents, such as hydrogen peroxide and sodium hypochlorite. The silica-free formulation also provides resistance to hydrofluoric acid and concentrated caustics. Refer to the chemical resistance chart for specific information.

Note: ATLAS chemical resistance data is derived from testing in total immersion service.

METHOD OF INSTALLATION

REZKLAD E-HI BUILD 115-C is designed to be applied with a roller, squeegee or brush over concrete or carbon steel substrates. REZKLAD E-HI BUILD 115-C is typically applied from 10 mils (0.25 mm.) to 15 mils (0.38 mm.) per coat on horizontal and vertical surfaces.

AVAILABLE COLORS

REZKLAD E-HI BUILD 115-C is only available in Black.

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUE
% Solids	ATM No. 14	95-97
Temperature Resistance, as a Coating over Concrete* Continual Intermittent		140°F (60°C) 200°F (93°C)
Abrasion Resistance, Taber CS-17 wh., 1 kg., 1,000 cyc.	ASTM C501	190
Hardness, Shore D-2	ASTM D2240	75-80

PACKAGING AND COVERAGE

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

1-1/2-Gal. Unit (12 lb. 2 oz. [5.5 kg.]) Consisting of:

One - 1-gal. can of Resin (9 lb. [4.1 kg.])

One - 1/2-gal. can of Hardener (3 lb. 2 oz. [1.4 kg.])

Coverage: Approx. 350 sq. ft. (32.5 m²) per unit

REZKLAD E-HI BUILD 115-C

1-Gallon Unit (12 lb. 10 oz. [5.7 kg.]) Consisting of:

One - 1-gal. can of Resin (9 lb. [4.1 kg.])

One - 2-qt. can of Hardener (3 lb. 10 oz. [1.6 kg.])

6-Gallon Unit (63 lb. 2 oz. [28.6 kg.]) Consisting of:

One - 5-gal. pail of Resin (45 lb. [20.4 kg.])

Five - 2-qt. cans of Hardener (3 lb. 10 oz. [1.6 kg.]) ea.

COVERAGE OF THE REZKLAD E-HI BUILD 115-C

Unit Size	10 mils	15 mils
1-Gallon	150 sq. ft.	100 sq. ft.
6-Gallon	750 sq. ft.	500 sq. ft.

Note: Coverage based on application to smooth surface.

SURFACE PREPARATION

REZKLAD E-HI BUILD 115-C can be applied to concrete and metal surfaces. The substrate 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.

Concrete: Finished concrete must be free of ridges, protrusions, fins, mortar splatter and have a tight laitance-free steel trowel finish. Abrasive grit blasting

is recommended. Where impractical, chemical preparation by acid washing is acceptable. 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 REZKLAD E-HI BUILD 115-C and REZKLAD E-CONCRETE PRIMER 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, REZKLAD E-HI BUILD 115-C and REZKLAD E-CONCRETE PRIMER are between 65°F (18°C) and 85°F (29°C).

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

Do not apply when relative humidity is greater than 75% or on substrates that can flex.

MIXING AND APPLICATION OF THE REZKLAD E-CONCRETE PRIMER

Stir the contents of the individual resin and hardener containers prior to blending. 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. During mixing, move the mixing blade in circular and up and down motions scraping all sides and the bottom of the mixing container.

- Combine the contents of the cans of REZKLAD E-CONCRETE PRIMER Resin and Hardener in a suitable mixing container. Mix thoroughly for one minute.
- Apply REZKLAD E-CONCRETE PRIMER with a brush or short nap roller making sure to work it into the pores of the concrete. Do not allow puddling.

- The primed surface should be tacky or dry before applying REZKLAD E-HI BUILD 115-C. If the primer is allowed to dry for longer than the maximum drying time, the surface must be sanded and the area reprimed before proceeding.

TYPICAL WORKING & 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 OF THE REZKLAD E-HI BUILD 115-C

Stir the contents of the individual resin and hardener containers prior to blending. Mixing of the components should be done by hand with a paint stirrer or with a hand drill equipped with a "Jiffy" type mixer at a mixing speed between 300 and 500 RPM. During mixing, move the mixing blade in circular and up and down motions scraping all sides and the bottom of the mixing container.

1-Gallon Unit (12 lb. 10 oz. [5.7 kg.]):

- Combine the contents of the 1-gallon can (9 lb. [4.1 kg.]) of REZKLAD E-HI BUILD 115-C Resin with the 2-quart can (3 lb. 10 oz. [1.6 kg.]) of REZKLAD E-HI BUILD 115-C Hardener in a clean, dry plastic or metal container.
- Mix thoroughly for approximately two minutes.

6-Gallon Unit (63 lb. 2 oz. [28.6 kg.]):

The following mixing instructions are for a batch size of 1.2 gallons (4.8 liters) or 12 lb. 10 oz. (5.7 kg.). Proportionally increase or decrease component quantities to attain larger or smaller batch sizes.

- Combine 110 fluid ounces (3.2 liters) of REZKLAD E-HI BUILD 115-C Resin with 54 fluid ounces (1.6 liters) REZKLAD E-HI BUILD 115-C Hardener in a suitable mixing container.
- Mix thoroughly for two minutes as described above.

MIX RATIO CHART - REZKLAD E-CONCRETE PRIMER

REZKLAD E-CONCRETE PRIMER	Weight	Volume
REZKLAD E-CONCRETE PRIMER Resin	2 lb. 8 oz. (1.1 kg.)	34.6 fl. oz. (1.0 liters)
REZKLAD E-CONCRETE PRIMER Hardener	15 oz. (425 g.)	13.7 fl. oz. (0.41 liters)
Batch Size	3 lb. 7 oz. (1.6 kg.)	48.3 fl. oz. (1.4 liters)

MIX RATIO CHART - REZKLAD E-HI BUILD 115-C

REZKLAD E-HI BUILD 115-C	Weight	Volume
REZKLAD E-HI BUILD 115-C Resin	9 lb. (4.1 kg.)	110 fl. oz. (3.3 liters)
REZKLAD E-HI BUILD 115-C Hardener	3 lb. 10 oz. (1.6 kg.)	54 fl. oz. (1.6 liters)
Batch Size	12 lb. 10 oz. (5.7 kg.)	164 fl. oz. (4.9 liters)

MIX RATIO OF THE REZKLAD E-HI BUILD 115-C

	by Weight	by Volume
Rezklad E-HI BUILD 115-C Resin	100	100
Rezklad E-HI BUILD 115-C Hardener	40	50

APPLICATION OF THE REZKLAD E-HI BUILD 115-C

- Apply a 10 mil (0.25 mm.) to 15 mil (0.38 mm.) coat of REZKLAD E-HI BUILD 115-C with a paint roller or brush.
- After REZKLAD E-HI BUILD 115-C can support foot traffic, apply a second 10 mil (0.25 mm.) to 15 mil (0.38 mm.) coat of REZKLAD E-HI BUILD 115-C.

***Note:** If REZKLAD E-CONCRETE PRIMER or REZKLAD E-HI BUILD 115-C are allowed to dry for longer than the maximum drying time, the surface must be sanded and cleaned before proceeding to the next step.

TYPICAL WORKING & DRYING TIMES OF THE REZKLAD E-HI BUILD 115-C

Temperature	Working Time	Support Foot Traffic	Maximum Drying Time*
65°F (18°C)	35 min.	18 hours	48 hours
75°F (24°C)	25 min.	10 hours	36 hours
85°F (29°C)	15 min.	8 hours	24 hours

*Maximum Drying Time listed is for drying time between recoats

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-HI BUILD 115-C 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.**

Note: Atlas makes it a practice to continuously update and enhance our CCM (Corrosion Resistant Construction Materials) products. This may result in slight discrepancies between our printed Data Sheets and the current version. For the most recent version of any Data Sheet, please visit our Web site at www.atlasmin.com

CHEMICAL RESISTANCE OF REZKLAD® E-HI BUILD 115-C (7-605PI)

Acetic Acid, to 10%	E	Fluosilicic Acid	C	Perchloroethylene	E	Water, Distilled	E
Acetic Acid, 10% to 50%	C	Formaldehyde	G	Petroleum	E	Water, Fresh	E
Acetone	G	Formic Acid, 10%	F	Phenol, to 5%	C	Water and Sewage	G
Alum or Aluminum Sulfate	E	Fruit Extracts	F	Phosphoric Acid, to 25%	E	Wine	E
Ammonium Chloride, Nitrate, Sulfate	E	Fruit Juices	F	Phosphoric Acid, above 25%	G	Xylene	E
Ammonium Hydroxide, to 30%	E	Gasoline	E	Pickles	E	Yeast	C
Aniline	C	Glucose	F	Picric Acid, to 5%	E	Zinc Chloride, Nitrate, Sulfate	E
Animal Oils	C	Glycerine	G	Potassium Bicarbonate, Carbonate	E	(5-10)	
Bakery Products	C	Grape Juice	F	Potassium Chloride, Nitrate, Sulfate	E		
Barium Chloride, Sulfate	E	Horse Radish	F	Potassium Hydroxide, to 50%	E		
Beer	E	Hydrobromic Acid, to 20%	E	Salad Oils	C		
Benzene	E	Hydrochloric Acid, to 37%	E	Salicylic Acid	G		
Benzene Sulfonic Acid, 10%	E	Hydrofluoric Acid, to 20%	G	Shortening	C		
Benzoic Acid	E	Hydrofluoric Acid, 20% to 70%	C	Silver Nitrate	E		
Black Liquor	E	Hydrofluosilicic Acid	C	Skydrol	E		
Boric Acid	E	Hydrogen Peroxide	G	Smokehouse Residues	F		
Bromine Water	C	Hypochlorous Acid, to 5%	E	Sodium Bicarbonate, Carbonate	E		
Butter	C	Ice Cream	E	Sodium Bisulfate, Sulfate	E		
Butyl Acetate	E	Jams & Jellies	F	Sodium Chloride, Nitrate, Phosphate	E		
Butyl Alcohol	E	Jet Fuel	E	Sodium Hydroxide, to 50%	E		
Butyric Acid	C	Kerosene	E	Sodium Hypochlorite	G		
Calcium Chloride, Nitrate, Sulfate	E	Ketchup	F	Sodium Sulfide, Sulfite	E		
Calcium Hydroxide	E	Lactic Acid, to 10%	E	Sodium Thiosulfate	E		
Calcium Hypochlorite	F	Lactic Acid, above 10%	F	Soft Drink Concentrates	F		
Carbonated Water	E	Lard	C	Soft Drinks	G		
Casein	G	Linseed Oil	F	Soups	E		
Cheese, all	G	Lux Liquid	E	Soya Oil	C		
Chlorine, Dry	F	Magnesium Chloride, Nitrate, Sulfate	E	Stearic Acid	F		
Chlorine, Wet	C	Magnesium Hydroxide	E	Sugar, Saturated Solution	F		
Chlorine Water	E	Maleic Acid, 25%	C	Sulfuric Acid, to 80%	E		
Chloroacetic Acid, to 10%	C	Malt	F	Sulfuric Acid, to 98%	G		
Chloroform	C	Malt Liquors	F	Sulfurous Acid	E		
Chromic Acid, to 20%	G	Margarine	C	Syrup	F		
Cider	F	Methyl Alcohol	G	Tannic Acid	F		
Citric Acid, to 10%	E	Methyl Ethyl Ketone	G	Tartaric Acid	F		
Citrus Fruits	F	Methylene Chloride	N	Tea	E		
Coffee	E	Milk	E	Toluene	E		
Copper Chloride, Nitrate, Sulfate	E	Mineral Oil	E	Toluene Sulfonic Acid	G		
Corn Oil	C	Mineral Spirits	E	Tomato Juice	F		
Corn Syrup	C	Molasses	F	1,1,1-Trichloroethane	E		
Egg Yolk	E	Muriatic Acid	E	Trichloroethylene	G		
Ethyl Acetate	F	Mustard	F	Trisodium Phosphate	E		
Ethyl Alcohol	E	Nickel Chloride, Nitrate, Sulfate	E	Tung Oil	C		
Ethyl Ether	E	Nitric Acid, to 30%	G	Turpentine	G		
Ethylene Dichloride	C	Oleic Acid	C	Urea	E		
Ethylene Glycol	E	Olive Oil	C	Urine	E		
Fatty Acids	C	Oxalic Acid	G	Vegetable Oil	C		
Ferric Chloride, Nitrate, Sulfate	E	Pectin	E	Vinegar	E		

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 in total immersion service.

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-HI BUILD 115-C 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 REZKLAD E-HI BUILD 115-C 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.