



Atlas Minerals & Chemicals, Inc.



DATA SHEET

7-22PI (2-03²)

Supersedes 7-22PI (5-00)

REZKLAD® E-CONCRETE PRIMER

DESCRIPTION

REZKLAD E-CONCRETE PRIMER is a multipurpose epoxy primer for use on concrete and steel substrates.

TYPICAL USES

REZKLAD E-CONCRETE PRIMER is for use with epoxy coatings, linings and floor topping systems. REZKLAD E-CONCRETE PRIMER LT is a special formulation for installations when the substrate and ambient temperatures are between 34°F (1°C) and 60°F (16°C). It is also a rapid setting system when temperatures are between 60°F (16°C) and 70°F (21°C). A conductive filler is available for spark testing systems applied to concrete substrates. REZKLAD E-CONCRETE PRIMER is certifiable for use in USDA inspected facilities.

METHOD OF INSTALLATION

REZKLAD E-CONCRETE PRIMER is brush or roller applied.

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

Coverage as Conductive Primer: Approx. 60 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

Coverage as Conductive Primer: Approx. 210 sq. ft. (19.5 m²) per unit

15-Gal. Unit (128 lb. 4 oz. [58.1 kg.]) Consisting of:

Two - 5-gal. pails of Resin (47 lb. 8 oz. [21.5 kg.])

One - 5-gal. pail of Hardener (33 lb. 4 oz. [15.1 kg.])

Coverage: Approx. 3,800 sq. ft. (353.0 m²) per unit

Coverage as Conductive Primer: Approx. 2280 sq. ft. (211.8 m²) per unit

REZKLAD E-CONCRETE PRIMER LT

1/2-Gallon Unit (3 lb. 12 oz. [1.7 kg.]) Consisting of:

One - 1/2-gal. can of Resin (2 lb. 8 oz. [1.1 kg.])

One - 1-qt. can of LT Hardener (1 lb. 4 oz. [567 g.])

Coverage: Approx. 110 sq. ft. (10.2 m²) per unit

Coverage as Conductive Primer: Approx. 65 sq. ft. (6.0 m²) per unit

1-1/2-Gallon Unit (13 lb. 8 oz. [6.1 kg.]) Consisting of:

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

One - 1-gal. can of LT Hardener (4 lb. 8 oz. [2.0 kg.])

Coverage: Approx. 400 sq. ft. (37.2 m²) per unit

Coverage as Conductive Primer: Approx. 240 sq. ft. (22.3 m²) per unit

ATLAS® CARBON POWDER (for Conductive Primer)

5-gal. pail (38 lb. [17.2 kg.])

Coverage: Approx. 3,550 sq. ft. (330 m²) per pail

SURFACE PREPARATION

REZKLAD E-CONCRETE PRIMER 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.

The prepared concrete substrate shall have a minimum tensile strength of 250 psi. (1.72 MPa).

Concrete surface must be sufficiently cured and comply with moisture testing as prescribed by ACI Test Method 515 R-16 "Dryness of Surface".

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 AND CONDITIONS

DURING APPLICATION

Store 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 material will be attained when the temperature of the substrate, air and REZKLAD E-CONCRETE PRIMER are between 60°F (16°C) and 85°F (29°C). Minimum temperature for installation is 60°F (16°C). At temperatures below 60°F (16°C), the product may not set or cure properly. Use REZKLAD E-CONCRETE PRIMER LT for installations where substrate and air temperatures are between 34°F (1°C) and 60°F (16°C). Store at 70°F (21°C) to 80°F (27°C) for 24 hours prior to use. REZKLAD E-CONCRETE PRIMER LT can also be used as a rapid setting system when temperatures are between 60°F (16°C) and 70°F (21°C).

Do not apply the REZKLAD E-CONCRETE PRIMER or REZKLAD E-CONCRETE PRIMER LT to substrates that flex. Do not apply when the relative humidity is greater than 75% or the substrate temperature is less than 5°F (3°C) above the dew point. Protect primer from moisture contamination.

APPLICATION OF THE REZKLAD E-CONCRETE PRIMER

Apply REZKLAD E-CONCRETE PRIMER with a brush or paint roller making sure to work it into the pores of the concrete. Do not allow puddling. Reprime areas in which the primer has absorbed into the substrate as evident by a dull finish. 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.

MIXING 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.

1/2-Gallon Unit of Rezkład E-Concrete Primer:

- Place the contents of the 1/2-gallon can (2 lb. 8 oz. [1.1 kg.]) of REZKLAD E-CONCRETE PRIMER Resin in a clean, dry plastic or metal mixing container. Scrape the sides of the resin can to remove all the resin.
- Add the contents of the 1-pint can (15 oz. [425 g.]) of REZKLAD E-CONCRETE PRIMER Hardener can. Scrape the sides of the hardener can to remove all the hardener.
- Mix the resin and hardener thoroughly for approximately two minutes.

1-1/2-Gallon Unit of Rezkład E-Concrete Primer:

- Place the contents of the 1-gallon can (9 lb. [4.1 kg.]) of REZKLAD E-CONCRETE PRIMER Resin in a clean, dry plastic or metal mixing container. Scrape the sides of the resin can to remove all the resin.

- Add the contents of the 1/2-gallon can (3 lb. 2 oz. [1.4 kg.]) of REZKLAD E-CONCRETE PRIMER Hardener. Scrape the sides of the hardener can to remove all the hardener.
- Mix the resin and hardener thoroughly for approximately two minutes.

15-Gallon Unit of Rezkład E-Concrete Primer:

The following mixing instructions are for a batch size of 1.4 gallons (5.1 liters) or 12 lb. 2 oz. (5.5 kg.). Estimated coverage of the batch size is 350 ft² (32.5 m²). Proportionally increase or decrease component quantities to attain larger or smaller batch sizes.

- Place 125 fluid ounces (3.70 liters) of REZKLAD E-CONCRETE PRIMER Resin in a clean, dry plastic or metal mixing container.
- Add 49 fluid ounces (1.45 liters) of the REZKLAD E-CONCRETE PRIMER Hardener.
- Mix the resin and hardener thoroughly for approximately two minutes.

MIX RATIO OF THE REZKLAD E-CONCRETE PRIMER

	Ratio by Weight	
Primer Resin	100 parts	9 lb. (4.1 kg.)
Primer Hardener	35 parts	3 lb. 2 oz. (1.4 kg.)

	Ratio by Volume	
Primer Resin	100 parts	125 fl. oz. (3.70 liters)
Primer Hardener	40 parts	49 fl. oz. (1.45 liters)

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

Temperature	Working Time	Tack Free	Maximum Drying Time
60°F (16°C)	35 min.	24 hrs.	48 hrs.
75°F (24°C)	25 min.	16 hrs.	48 hrs.
85°F (29°C)	15 min.	12 hrs.	24 hrs.

APPLICATION OF THE REZKLAD E-CONCRETE PRIMER LT

Apply REZKLAD E-CONCRETE PRIMER LT with a brush or paint roller making sure to work it into the pores of the concrete. Do not allow puddling. Reprime areas in which the primer has absorbed into the substrate as evident by a dull finish. 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.

MIXING OF THE REZKLAD E-CONCRETE PRIMER LT

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.

1/2-Gallon Unit of Rezklad E-Concrete Primer LT:

- Place the contents of the 1/2-gallon can (2 lb. 8 oz. [1.1 kg.]) of REZKLAD E-CONCRETE PRIMER Resin in a clean, dry plastic or metal mixing container. Scrape the sides of the resin can to remove all the resin.
- Add the contents of the 1-quart can (1 lb. 4 oz. [567 g.]) of REZKLAD E-CONCRETE PRIMER LT Hardener. Scrape the sides of the hardener can to remove all the hardener.
- Mix the resin and hardener thoroughly for approximately two minutes.

1-1/2-Gallon of Rezklad E-Concrete Primer LT:

- Place the contents of the 1-gallon can (9 lb. [4.1 kg.]) of REZKLAD E-CONCRETE PRIMER Resin in a clean, dry plastic or metal mixing container. Scrape the sides of the resin can to remove all the resin.
- Add the contents of the 1-gallon can (4 lb. 8 oz. [2.0 kg.]) of REZKLAD E-CONCRETE PRIMER LT Hardener. Scrape the sides of the hardener can to remove all the hardener.
- Mix the resin and hardener thoroughly for approximately two minutes.

MIX RATIO OF THE REZKLAD E-CONCRETE PRIMER LT**Ratio by Weight**

Primer Resin	100 parts	9 lb. (4.1 kg.)
Primer LT Hardener	50 parts	4 lb. 8 oz. (2.0 kg.)

Ratio by Volume

Primer Resin	100 parts	125 fl. oz. (3.70 liters)
Primer LT Hardener	55 parts	70 fl. oz. (2.07 liters)

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

Temperature	Working Time	Tack Free	Maximum Drying Time
34°F (1°C)	35 min.	24 hrs.	48 hrs.
40°F (4°C)	25 min.	16 hrs.	48 hrs.
50°F (10°C)	20 min.	12 hrs.	24 hrs.
60°F (16°C)	15 min.	10 hrs.	24 hrs.
70°F (21°C)	10 min.	6 hrs.	24 hrs.

APPLICATION OF THE REZKLAD E-CONCRETE CONDUCTIVE PRIMER

During application, stir the mixed components frequently to avoid settlement of the carbon powder. Apply Conductive Primer with a brush or paint roller making sure to work it into the pores of the concrete. Do not allow puddling. Reprime areas in which the primer has absorbed into the substrate as evident by a dull finish. 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.

MIXING OF THE**REZKLAD E-CONCRETE CONDUCTIVE PRIMER**

Spark testing of systems applied to concrete substrates require ATLAS Carbon Powder added to the REZKLAD E-CONCRETE PRIMER or REZKLAD E-CONCRETE PRIMER LT.

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.

1/2-Gallon Unit of**Rezklad E-Concrete Conductive Primer:**

- Place the contents of the 1/2-gallon can (2 lb. 8 oz. [1 kg.]) of REZKLAD E-CONCRETE PRIMER Resin in a clean, dry plastic or metal mixing container. Scrape the sides of the resin can to remove all the resin.
- Add the contents of the 1-pint can (15 oz. [425 g.]) of REZKLAD E-CONCRETE PRIMER Hardener. Scrape the sides of the hardener can to remove all the hardener.
- Mix the resin and hardener thoroughly for approximately two minutes.
- Add 10 oz. (284 g.) or approximately 12 fluid ounces (0.36 liters) of ATLAS Carbon Powder. Mix thoroughly for approximately two minutes.

1-1/2-Gallon Unit of**Rezklad E-Concrete Conductive Primer:**

- Place the contents of the 1-gallon can (9 lb. [4.1 kg.]) of REZKLAD E-CONCRETE PRIMER Resin in a clean, dry plastic or metal mixing container. Scrape the sides of the resin can to remove all the resin.
- Add the contents of the 1/2-gallon can (3 lb. 2 oz. [1.4 kg.]) of REZKLAD E-CONCRETE PRIMER Hardener can. Scrape the sides of the hardener can to remove all the hardener.
- Mix the resin and hardener thoroughly for approximately two minutes.
- Add 2 lb. 4 oz. (1.0 kg.) or approximately 42 fluid ounces (1.2 liters) of ATLAS Carbon Powder. Mix thoroughly for approximately two minutes.

15-Gallon Unit of**Rezklad E-Concrete Conductive Primer:**

The following mixing instructions are for a batch size of 1.4 gallons (5.1 liters) or 12 lb. 2 oz. (5.5 kg.). Estimated coverage of the batch size is 350 ft² (32.5 m²). Proportionally increase or decrease component quantities to attain larger or smaller batch sizes.

- Combine 125 fluid ounces (3.70 liters) of REZKLAD E-CONCRETE PRIMER Resin and 49 fluid ounces (1.45 liters) of REZKLAD E-CONCRETE PRIMER Hardener in the 5-gallon capacity mechanical mixer.

- b. Mix thoroughly for one minute.
- c. Add 2 lb. 4 oz. (1.0 kg.) or approximately 42 fluid ounces (1.2 liters) of ATLAS Carbon Powder. Mix thoroughly for approximately two minutes.

**MIX RATIO OF THE
REZKLAD E-CONCRETE CONDUCTIVE PRIMER**

	by Weight	by Volume
Primer Resin	100	100
Primer Hardener	35	40
ATLAS Carbon Powder	25	34

1/2-Gallon Unit of

Rezklad E-Concrete Conductive Primer LT:

- a. Place the contents of the 1/2-gallon can (2 lb. 8 oz. [1.1 kg.]) of REZKLAD E-CONCRETE PRIMER Resin in a clean, dry plastic or metal mixing container. Scrape the sides of the resin can to remove all the resin.
- b. Add the contents of the 1-quart can (1 lb. 4 oz. [567 g.]) of REZKLAD E-CONCRETE PRIMER LT Hardener. Scrape the sides of the hardener can to remove all the hardener.
- c. Mix the resin and hardener thoroughly for approximately two minutes.
- d. Add 10 oz. (284 g.) or approximately 12 fluid ounces (0.36 liters) of ATLAS Carbon Powder. Mix thoroughly for approximately two minutes.

1-1/2-Gallon Unit of

Rezklad E-Concrete Conductive Primer LT:

- a. Place the contents of the 1-gallon can (9 lb. [4.1 kg.]) of REZKLAD E-CONCRETE PRIMER Resin in a clean, dry plastic or metal mixing container. Scrape the sides of the resin can to remove all the resin.
- b. Add the contents of the 1-gallon can (4 lb. 8 oz. [2.0 kg.]) of REZKLAD E-CONCRETE PRIMER LT Hardener. Scrape the sides of the hardener can to remove all the hardener.
- c. Mix the resin and hardener thoroughly for approximately two minutes.
- d. Add 2 lb. 4 oz. (1.0 kg.) or approximately 42 fluid ounces (1.2 liters) of ATLAS Carbon Powder. Mix thoroughly for approximately two minutes.

**MIX RATIO OF THE
REZKLAD E-CONCRETE CONDUCTIVE PRIMER LT**

	by Weight	by Volume
Primer Resin	100	100
Primer LT Hardener	50	55
ATLAS Carbon Powder	25	34

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 if the material has begun to harden. Fully hardened material will have to be removed by mechanical means.

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, REZKLAD E-CONCRETE PRIMER Resins and Hardeners have a shelf life of approximately one year. ATLAS Carbon Powder can be stored indefinitely.

PRODUCT SPECIFICATION

The system shall be REZKLAD E-CONCRETE PRIMER 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.