



Atlas Minerals & Chemicals, Inc.



DATA SHEET

3-201PI (10-18)
Supersedes 3-201PI (8-18)

REZKLAD® A-1000

DESCRIPTION

REZKLAD A-1000 is a portland cement, polymer modified concrete repair material.

TYPICAL USES

REZKLAD A-1000 is designed to be applied to new or existing concrete surfaces. It is excellent when used for re-grading concrete substrates prior to the application of protective materials. The rapid cure eliminates the need to wait for conventional portland cement materials to cure.

METHOD OF INSTALLATION

REZKLAD A-1000 is designed for trowel or screed application at a minimum thickness of 1/8" (3.2 mm.).

PACKAGING AND COVERAGE

Horizontal Applications

One bag of REZKLAD A-1000 (50 lb. [22.7 kg.])

Yield when mixed with 3/4-gallon water:

Volume: Approx. 0.45 ft³ (13.9 liters)

Coverage: Approx. 22 sq. ft. (2.0 m²) @ 1/4" (6.4 mm.) thickness

Vertical and Overhead Applications

One bag of REZKLAD A-1000 (50 lb. [22.7 kg.])

One can of REZKLAD A-1000 Vertical Additive (4 oz. [0.12 liters])

Yield when mixed with 1-gallon water:

Volume: Approx. 0.49 ft³ (12.7 liters)

Coverage: Approx. 24 sq. ft. (2.2 m²) @ 1/4" (6.4 mm.) thickness

SURFACE PREPARATION

REZKLAD A-1000 can be applied to concrete surfaces. Surface must be clean and sound. Remove all deteriorated concrete, dirt, oil, grease, and other materials that could prevent proper adhesion from the area to be repaired. The repair area should have an exposed aggregate surface with a minimum surface profile of ± 1/8" (3mm) as referenced in I.C.R.I. Technical Guidelines No. 310-2R (CSP-6).

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUE
Density	ASTM C905	125 lb./cu. ft. (1.97 g./cc.)
Tensile Strength, 7 days @ 77°F (25°C)	ASTM C307	495 psi. (3.41 MPa)
Compressive Strength, 7 days @ 77°F (25°C)	ASTM C579	3,600 psi. (24.8 MPa)
Flexural Strength, 7 days @ 77°F (25°C)	ASTM C580	1,130 psi. (7.80 MPa)
Working Life @ 77°F (25°C)		30 to 50 min.

The concrete surface must be neutralized to remove any acid saturated condition. The edges or perimeter of the repair area should be saw cut and dovetailed to provide an acceptable termination anchor. To ensure the surface preparation has been performed satisfactorily, a pull off test is recommended.

TEMPERATURE DURING APPLICATION

Store REZKLAD A-1000 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 and REZKLAD A-1000 are between 65°F (18°C) and 85°F (29°C). Minimum temperature for installation is 45°F (7°C). Do not install at temperatures above 95°F (35°C).

MIXING AND APPLICATION OF THE REZKLAD A-1000

REZKLAD A-1000 should be mixed with clean, cool potable water only, using a slow speed revolving bucket or similar mixer. Do not mix at high speed. If hand mixing, allow the REZKLAD A-1000 to slake for approximately 5 to 10 minutes and adjust consistency with water if necessary.

- Wet concrete with water and keep wet just prior to the application of the REZKLAD A-1000. Any standing water must be removed.
- Place the water in the mixer and slowly add the REZKLAD A-1000 Powder at an approximate weight ratio of 1-part water to 8-parts powder for horizontal applications. For vertical applications, use 1-part water to 6-parts powder to 0.03-parts REZKLAD A-1000 Vertical Additive.

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.

TYPICAL WORKING & SETTING TIMES OF THE REZKLAD A-1000

Temperature	Working Time	Support Foot Traffic	Drying Time Before Application of Epoxy Overlay	
		1/4" – 1" Thick	1/4" – 3/8" Thick	1" Thick
65°F (18°C)	50 min.	24 hours	48 hours	72 hours
75°F (24°C)	45 min.	16 hours	24 hours	48 hours
85°F (29°C)	30 min.	12 hours	18 hours	36 hours

- c. Mix until uniform. Adjust the consistency by adding more or less REZKLAD A-1000 Powder.
- d. Apply the REZKLAD A-1000 to the damp surface with a screed or mason's trowel. On vertical or overhead surfaces, use a fine bristle paintbrush moistened with water to remove trowel marks and attain a more uniform surface.

CLEANING OF TOOLS AND EQUIPMENT

Water and a nylon scrub pad will remove the materials 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 REZKLAD A-1000 as manufactured by Atlas Minerals & Chemicals, Inc. and shall be certifiable for use in USDA inspected facilities.

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 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.**