



Atlas Minerals & Chemicals, Inc.



DATA SHEET

7-23PI (10-02²)

UREKLAD® PRIMER

DESCRIPTION AND TYPICAL USES

UREKLAD PRIMER and UREKLAD LOW ODOR PRIMER are polyurethane elastomer primers for UREKLAD CT-80 and UREKLAD 180 systems. UREKLAD PRIMER is recommended as an interfacing primer over acrylic resin based substrates prior to the placement of polyester and vinyl ester resin based systems.

PACKAGING AND COVERAGE

UREKLAD PRIMER

1-Quart Unit (2 lb. 10 oz. [1.2 kg.]) Consisting of:

One - 1-qt. can of Component A (1 lb. 15 oz. [879 g.])

One - 1-pt. can of Component B (11 oz. [312 g.])

Coverage: Approx. 96 sq. ft. (8.9 m²) per unit

1-1/2-Gal. Unit (10 lb. 10 oz. [4.8 kg.]) Consisting of:

One - 1-gal. can of Component A (7 lb. 14 oz. [3.6 kg.])

One - 1/2-gal. can of Component B (2 lb. 12 oz. [1.2 kg.])

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

UREKLAD LOW ODOR PRIMER

Unit Consists of:

One - 5-gal. pail of UREKLAD 180 Component A (22 lb. 14 oz. [10.4 kg.])

One - 1-gal. can of UREKLAD 180 Component B (9 lb. 3 oz. [4.2 kg.])

33 lb. (15.0 kg.) ATLAS® AGGREGATE No. 5* (equal to three one-gallon cans)

Coverage: Approx. 475 sq. ft. (44.2 m²) per unit

*Order separately in 100 lb. (45.4 kg.) bags

ATLAS AGGREGATE No. 5

One - bag (100 lb. [45.4 kg.])

Coverage: Approx. 1,350 sq. ft. (125 m²) per bag when used in UREKLAD LOW ODOR PRIMER

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

UREKLAD PRIMER and UREKLAD LOW ODOR PRIMER can be applied to concrete and steel 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.

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

Carbon Steel: Metal surfaces should be grit blasted to a SSPC-SP5 or NACE #1 white metal blast cleaned surface finish. Profile height must be 3 (0.076 mm.) to 4 mils (0.102 mm.).

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

TEMPERATURE / HUMIDITY DURING APPLICATION

Store all materials referred to in this data sheet 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 Ureklad components 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 the relative humidity is greater than 75% or the substrate temperature is less than 5°F (3°C) above the dew point.

MIXING OF THE UREKLAD PRIMER

Stir the contents of the individual UREKLAD PRIMER Component A and Component B 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-Quart Unit of Ureklad Primer:

The following mixing instructions are for a batch size of 0.3 gallons (1.2 liters). Estimated coverage of the batch size is 96 ft² (8.9 m²). Proportionally decrease component quantities to attain smaller batch sizes.

- Combine the contents of the 1 lb. 15 oz. (879 g.) can of UREKLAD PRIMER Component A with the contents of the 11 oz. (312 g.) can of UREKLAD PRIMER Component B in a suitable mixing container.

- b. Mix thoroughly for two minutes as described above.

1-1/2 Gallon Unit of Ureklad Primer:

The following mixing instructions are for a batch size of 1.3 gallons (5.0 liters). Estimated coverage of the batch size is 400 ft² (37.2 m²). Proportionally decrease component quantities to attain smaller batch sizes.

- Combine the contents of the 7 lb. 14 oz. (3.6 kg.) can of UREKLAD PRIMER Component A with the contents of the 2 lb. 12 oz. (1.2 kg.) can of UREKLAD PRIMER Component B in a suitable mixing container.
- Mix thoroughly for two minutes as described above.

MIX RATIO OF THE UREKLAD PRIMER

| | by Weight | by Volume |
|----------------------------|-----------|-----------|
| Ureklad Primer Component A | 100 | 100 |
| Ureklad Primer Component B | 35 | 35 |

APPLICATION OF THE UREKLAD PRIMER

Apply UREKLAD PRIMER with a brush or short nap roller in thin coats. Do not allow puddling. If puddling occurs, redistribute or remove excess material. Work the primer into the pores of concrete. Allow the primer to dry. 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, cleaned, wiped with UREKLAD CLEANING SOLVENT and reprimed.

UREKLAD PRIMER

| Temperature | Working Time | Minimum Drying Time | Maximum Drying Time |
|-------------|--------------|---------------------|---------------------|
| 65°F (18°C) | 40 min. | 3 hours | 36 hours |
| 75°F (24°C) | 30 min. | 2 hours | 24 hours |
| 85°F (29°C) | 20 min. | 1 hour | 24 hours |

MIXING OF THE UREKLAD LOW ODOR PRIMER

UREKLAD LOW ODOR PRIMER consists of UREKLAD 180 Component A and Component B and ATLAS AGGREGATE No. 5.

Stir the contents of the individual UREKLAD 180 Component A and Component B containers prior to blending. Stirring and 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 stirring and mixing, move the mixing blade in circular and up and down motions scraping all sides and the bottom of the container.

Half Unit of Ureklad Low Odor Primer:

The following mixing instructions are for a batch size of 3.4 gallons (12.9 liters). Estimated coverage of the batch size is 237 ft² (22 m²). Proportionally decrease component quantities to attain smaller batch sizes.

- Place 11 lb. 7 oz. (5.2 kg.) or 179 fluid ounces (5.30 liters) UREKLAD 180 Component A in a suitable mixing container.
- Add 4 lb. 9 oz. (2.1 kg.) or 59 fluid ounces (1.76 liters) of UREKLAD 180 Component B. Mix the combined components for approximately two minutes.
- Pour the mixture into a second mixing container scraping the sides and bottom of the first container to completely remove contents.
- Continue mixing while slowly adding approximately 1-1/2 gallons (5.7 liters) of ATLAS AGGREGATE No. 5.
- Mix thoroughly for two minutes as described above.

Full Unit of Ureklad Low Odor Primer:

The following mixing instructions are for a batch size of 6.7 gallons (25.5 liters). Estimated coverage of the batch size is 475 ft² (44 m²). Proportionally decrease component quantities to attain smaller batch sizes.

- Place the contents of the 22 lb. 14 oz. (10.4 kg.) UREKLAD 180 Component A in a suitable mixing container. Scrape the sides and bottom of the container to completely remove contents.
- Add the contents of the 9 lb. 3 oz. (4.2 kg.) of UREKLAD 180 Component B. Scrape the sides and bottom of the container to completely remove contents. Mix the combined components for approximately two minutes.
- Pour the mixture into a second mixing container scraping the sides and bottom of the first container to completely remove contents.
- Continue mixing while slowly adding approximately 3 gallons (11.4 liters) of ATLAS AGGREGATE No. 5.
- Mix thoroughly for two minutes as described above.

MIX RATIO OF UREKLAD LOW ODOR PRIMER

| | by Weight | by Volume |
|-------------------------|-----------|-----------|
| Ureklad 180 Component A | 100 | 100 |
| Ureklad 180 Component B | 35 | 35 |
| Aggregate No. 5 | 145 | 107 |

APPLICATION OF THE UREKLAD LOW ODOR PRIMER

Pour the mixed material onto the surface and apply a tight scrape coat using the edge of a steel trowel. If the low odor primer is allowed to dry for longer than the maximum drying time, the surface must be sanded, cleaned, wiped with UREKLAD CLEANING SOLVENT and reprimed.

UREKLAD LOW ODOR PRIMER

| Temperature | Working Time | Minimum Drying Time | Maximum Drying Time |
|-------------|--------------|---------------------|---------------------|
| 65°F (18°C) | 40 min. | 12 hours | 60 hours |
| 75°F (24°C) | 30 min. | 5 hours | 48 hours |
| 85°F (29°C) | 20 min. | 3 hour | 36 hours |

CLEANING OF TOOLS AND EQUIPMENT

Clean tools and equipment immediately with UREKLAD CLEANING SOLVENT. 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 68°F (20°C). DO NOT subject to temperatures above 86°F (30°C). Protect from freezing. In unopened original containers, the materials referred to in this Data Sheet have a shelf life of approximately one year.

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.**