



Atlas Minerals & Chemicals, Inc.



DATA SHEET

4-121PI (5-01²)
Supersedes 4-121PI (3-99)

CHEMPRUF[®] 121

DESCRIPTION

CHEMPRUF 121 is a **novolac epoxy** glass flake coating system which may be brush or roller applied. The random layers of glass flake reinforce the coating for resistance to physical stress attributable to thermal cycling. CHEMPRUF 121 provides a durable coating that protects concrete and steel surfaces from corrosion.

The CHEMPRUF 121 is designed for primary or secondary containment applications for tanks, containment dikes, structural steel and floors.

CHEMPRUF 121 may be used as a finisher coating for ChemPruf 2211 Lining Systems or as a membrane in conjunction with chemically resistant brick sheathing.

CHEMICAL RESISTANCE

The CHEMPRUF 121 is resistant to many non-oxidizing acids, such as 98% sulfuric acid, 30% nitric acid and 30% chromic acid, alkalis, salt solutions and solvents, such as benzene, toluene and xylene. Refer to the CHEMPRUF 100 SERIES Chemical Resistance Chart, 4-100, for specific information.

ChemPruf 121 is a 20 mil (0.51 mm.) to 50 mil (1.27 mm.) system. The system consists of a ChemPruf E Primer and a minimum of two coats of ChemPruf 121. The thickness per coat and number of coats applied are based on application method. System thickness, as recommended by ATLAS, is based on service conditions.

CHEMPRUF 121 Consists of:

PRIMER

ChemPruf E Primer, a two-component, moisture-tolerant, brush or roller applied, solvent free penetrating primer.

CHEMPRUF 121

ChemPruf 121, a two-component, glass flake filled novolac epoxy resin coating.

AVAILABLE COLORS

ChemPruf 121 is available in white and gray.

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUE
Tensile Strength, 7 days @ 77°F (25°C)	ASTM D638	3,000 psi (20.7 MPa)
Compressive Strength, 7 days @ 77°F (25°C)	ASTM C579	15,000 psi (103 MPa)
Flexural Strength, 7 days @ 77°F (25°C)	ASTM C580	5,700 psi (39.3 MPa)
Heat Deflection Temperature	ASTM D648	115°F (46°C)
Temperature Resistance Immersion, Continual	—	120°F (49°C)
Immersion, Intermittent		150°F (66°C)
Dry Heat		275°F (135°C)
Hardness, Shore D-2	—	80 to 85
Cure Rate @ 77°F (25°C)	—	7 days
Max. Chemical Resistance		

ADDITIONAL INFORMATION

For specific information pertaining to Surface Preparation, Packaging or Mixing and Application, refer to the following ATLAS literature:

- Surface Preparation Data Sheet (PS-30)
- ChemPruf 121 Installation Instructions (I-4-121)
- Control Joint & Structural Crack Drawing (4-3003DG)
- Horizontal / Vertical Transition Drawing (4-3004DG)
- Pipe Outlets Drawing (4-3005DG)

SURFACE PREPARATION

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: 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". Concrete surfaces should be grit blasted to a finish similar to the profile of 100 to 120 grit sandpaper.

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.).

TEMPERATURE 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. Minimum temperature for installation is 65°F (18°C).

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.

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.

APPLICATION

1. Brush or roll apply ChemPruf E Primer.
2. Apply one coat of ChemPruf 121 by brush or roller to a WFT of 10 mil (0.25 mm.) to 25 mil (0.64 mm.). Allow to harden.
3. Apply a second and additional coats of ChemPruf 121 as described in Step (2.). More than two coats may be required based on the method of application and system thickness.

	Application WFT per Coat	
	Horizontal	Vertical
Brush	10 to 20 mils	10 to 20 mils
Roller	10 to 20 mils	8 to 15 mils

Protect uncured primer and ChemPruf 121 from moisture contamination until minimum cure time is attained.

INSPECTION

1. Inspect ChemPruf 121 for imperfections after the first coat has hardened. Repair defects and imperfections prior to application of successive coats.
2. When specified or required, spark test for pinholes using 100 volts per mil (0.025 mm.) of lining thickness. Spark testing of ChemPruf 121 applied to concrete substrates requires ChemPruf E Primer with ATLAS[®] Carbon Powder.

MEMBRANE

When the ChemPruf 121 is to be used as a membrane with chemical resistant masonry sheathing, a release agent, such as silicone or paste wax, must be applied to the surface of the lining system. Apply the release agent after the ChemPruf 121 has attained the minimum drying time. The use of a release agent allows the masonry sheathing to move independent of the lining system.

PRODUCT SPECIFICATION

The coating system shall be ChemPruf 121 as manufactured by Atlas Minerals & Chemicals, Inc.

ChemPruf 121, a novolac epoxy resin glass flake filled 20 mil (0.51 mm.) to 50 mil (1.27 mm.) coating system. The system consists of a ChemPruf E Primer and a minimum of two coats of ChemPruf 121. The thickness per coat and number of coats applied are based on application method. System thickness, as recommended by ATLAS, is based on service conditions.

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 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 and temperatures above 86°F (30°C). Protect from freezing. In unopened original containers, ChemPruf E Primer Resin and Hardener and ChemPruf 121 Resin and Hardener have a shelf life of approximately one year. ATLAS Carbon Powder can be stored indefinitely.

MAINTENANCE

Should coating be damaged, it can be repaired by thoroughly cleaning and reapplying the ChemPruf 121.

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.**



Installation Instructions

Atlas Minerals & Chemicals, Inc.



I-4-121 (6-19)
Supersedes I-4-121 (10-02²)

CHEMPRUF[®] 121

DESCRIPTION

CHEMPRUF 121 system consists of ChemPruf E Primer and a minimum of two coats of ChemPruf 121. The thickness per coat and number of coats applied are based on application method. System thickness, as recommended by ATLAS, is based on service conditions.

Application WFT per Coat

	Horizontal	Vertical
Brush	10 to 20 mils	10 to 20 mils
Roller	10 to 20 mils	8 to 15 mils

ESTIMATED COVERAGE

CHEMPRUF E PRIMER

1/2-Gallon Unit	100 ft ² (9.29 m ²)
1-1/2-Gallon Unit.....	350 ft ² (32.5 m ²)
15-Gallon Unit.....	3,800 ft ² (353 m ²)

CHEMPRUF E CONDUCTIVE PRIMER

1/2-Gallon Unit.....	60 ft ² (5.57 m ²)
1-1/2-Gallon Unit.....	210 ft ² (19.5 m ²)
15-Gallon Unit.....	2,800 ft ² (212 m ²)
ATLAS [®] Carbon Powder*	3,550 ft ² (330 m ²)

*Per pail for Conductive Primer

CHEMPRUF 121

Approx. 98.3% Solids, unthinned

Approx. 95.7% Solids, thinned 4% by volume

1-Gallon Unit

mil sq. ft. per unit	1,833 ft ² (175 m ²)
10 mils (0.25 mm.).....	188 ft ² (17.5 m ²)
15 mils (0.38 mm.).....	125 ft ² (11.6 m ²)

6-Gallon Unit

mil sq. ft. per unit	9,416 ft ² (875 m ²)
10 mils (0.25 mm.).....	941 ft ² (87.4 m ²)
15 mils (0.38 mm.).....	627 ft ² (58.2 m ²)

CHEMPRUF 121 THINNER

1-gallon can per 20 gallons of ChemPruf 121

Note: All references to application thickness and coverage per unit in this Installation Instructions are WFT (wet film thickness). Material estimating quantities may vary depending on project conditions and application techniques. Material quantities are theoretical and do not include a safety factor.

PACKAGING – CHEMPRUF E PRIMER

1/2-Gal. Unit (3 lb. 7 oz. [1.6 kg.]) Consisting of:

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

One - 1-pt. can ChemPruf E Primer Hardener
(15 oz. [425 g.])

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

One - 1-gal. can ChemPruf E Primer Resin
(9 lb. [4.1 kg.])

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

15-Gal. Unit (128 lb. 4 oz. [58.2 kg.]) Consisting of:

Two - 5-gal. pails ChemPruf E Primer Resin
(47 lb. 8 oz. [21.5 kg.]) ea.

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

ATLAS Carbon Powder (for Conductive Primer)

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

CHEMPRUF 121

1-Gal. Unit (11 lb. 14 oz. [5.4 kg.]) Consisting of:

One - 1-gal. can ChemPruf 121 Resin
(9 lb. 8 oz. [4.3 kg.])

One - 1/2-gal. can ChemPruf 121 Hardener
(2 lb. 6 oz. [1.1 kg.])

6-Gal. Unit (59 lb. 6 oz. [26.9 kg.]) Consisting of:

One - 5-gal. pail ChemPruf 121 Resin
(47 lb. 8 oz. [21.5 kg.])

Five - 1/2-gal. cans ChemPruf 121 Hardener
(2 lb. 6 oz. [1.1 kg.]) ea.

CHEMPRUF 121 THINNER

1-gal. can (6 lb. 8 oz. [2.9 kg.])

5-gal. pail (35 lb. [15.9 kg.])

AVAILABLE COLORS

ChemPruf 121 is available in white and gray.

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.

SURFACE PREPARATION

ChemPruf 121 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.

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".

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.).

The primer will hold the finish on carbon steel for approximately two weeks at relative humidity of 75%. Should flash rusting occur at any time before ChemPruf 121 is applied, the surface must be grit blasted again and reprimed.

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

TEMPERATURE / HUMIDITY DURING APPLICATION

Store all materials referred to in this Installation Instructions 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 ChemPruf 121 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.

CONSTRUCTION DETAILS

For additional information on Construction Details, refer to the following ATLAS literature:

- Surface Preparation Data Sheet (PS-30)
- Horizontal / Vertical Transition Drawing (4-3004DG)
- Structural Crack Drawing (4-3006DG)
- Control Joint Drawing (4-3003DG)
- Lining System Termination Drawing (4-3000DG)
- Termination at Drain Drawing (4-3001DG)
- Pipe Outlets Drawing (4-3005DG)

Protect uncured primer and ChemPruf 121 from moisture contamination until minimum cure time is attained.

Do not apply the ChemPruf 121 system to substrates that flex.

INSTALLATION EQUIPMENT AND SUPPLIES*

- Jiffy type mixer
- 5-gallon (18.9 liter) plastic or metal containers
- Short (3/16" to 1/4") & medium (3/8") nap paint rollers
- Paint brushes
- Rubber & cotton gloves
- Organic respirator, Safety goggles
- Electric grinder

*The safety equipment listed above is the minimum required to install the ChemPruf 121. The installer must provide any equipment necessary to comply with existing federal, state, local and customer safety regulations.

APPLICATION OF THE CHEMPRUF 121

1. **Primer:** All substrates must be primed with ChemPruf E Primer. Apply ChemPruf E Primer with a brush or medium nap roller. Do not allow puddling. Work ChemPruf E Primer into the pores of concrete substrates.

The primed surface should be tacky or dry before applying the first coat of ChemPruf 121. 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.

Conductive Primer: When the ChemPruf 121 is applied to concrete substrates, spark testing of the coating may be specified or required. Apply ChemPruf E Primer with ATLAS Carbon Powder. Stir the mixed components frequently during the application to avoid settlement of the carbon powder. Apply as described above.

Temperature	CHEMPRUF E PRIMER		
	Working Time	Minimum Drying Time	Maximum Drying Time
65°F (18°C)	40 min.	12 hours	30 hours
75°F (24°C)	30 min.	8 hours	24 hours
85°F (29°C)	20 min.	6 hours	20 hours

2. Apply a 10 mil (0.25 mm.) to 15 mil (0.38 mm.) WFT coat of ChemPruf 121 with a short nap roller or brush. Allow the ChemPruf 121 to harden before continuing with the next coat.
3. Apply a second coat and any additional coats, as required, of ChemPruf 121 as described in Step (2.). Allow each coat of ChemPruf 121 to harden before applying additional coats. More than two coats may be required based on the method of application and system thickness.

If the ChemPruf 121 is allowed to dry for longer than the maximum drying time, the surface must be sanded, cleaned and reprimed before applying the next coat of ChemPruf 121.

CHEMPRUF 121

Temperature	Working Time	Minimum Drying Time	Maximum Drying Time
65°F (18°C)	35 min.	16 hours	24 hours
75°F (24°C)	25 min.	8 hours	24 hours
85°F (29°C)	20 min.	6 hours	20 hours

4. **Inspection:** Inspect the coating for imperfections between each coat of ChemPruf 121. Repair defects and imperfections prior to application of the next coat.

When specified or required, spark test for pinholes using 100 volts per mil (0.025 mm.) of coating thickness. Spark testing of ChemPruf 121 applied to concrete substrates requires ChemPruf E Primer with ATLAS Carbon Powder.

MEMBRANE

When applying a masonry sheathing over the ChemPruf 121, a release agent must be applied to the surface of the coating system. The use of a release agent allows the masonry sheathing to move independent of the coating system. Silicone or paste wax can be applied after the maximum drying time.

MIXING OF THE CHEMPRUF E 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-Gal. and 1-1/2-Gal. Units of ChemPruf E Primer

- Combine the contents of the cans of ChemPruf E Primer Resin and Hardener in a suitable mixing container.
- Mix thoroughly for two minutes as described above.

15-Gallon Unit of ChemPruf E 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 (3.69 liters) of ChemPruf E Primer Resin with 49 fluid ounces (1.45 liters) ChemPruf E Primer Hardener in a suitable mixing container.
- Mix thoroughly for two minutes as described above.

MIX RATIO OF THE CHEMPRUF E PRIMER

	by Weight	by Volume
CHEMPRUF E PRIMER Resin	100	100
CHEMPRUF E PRIMER Hardener	35	40

Conductive Primer

- Mix the ChemPruf E Primer Resin and Hardener as described above.
- 1/2-Gallon Unit:** Add 10 oz. (284 g.) or approximately 12 fluid ounces (0.36 liters) of ATLAS Carbon Powder. Mix thoroughly for approximately two minutes. During application, stir the mixed components frequently to avoid settlement of the carbon powder.

1-1/2-Gallon Unit or 1.4-Gallon (5.1 liters)

Batch Size: Add 2 lb. 4 oz. (1.0 kg.) or approximately 42 fluid ounces (1.25 liters) of ATLAS Carbon Powder. Mix thoroughly for approximately two minutes. During application, stir the mixed components frequently to avoid settlement of the carbon powder.

MIX RATIO OF THE CONDUCTIVE PRIMER

	by Weight	by Volume
CHEMPRUF E PRIMER Resin	100	100
CHEMPRUF E PRIMER Hardener	35	40
ATLAS Carbon Powder	25	34

MIXING OF THE CHEMPRUF 121

Stir the contents of the individual resin and hardener containers prior to blending. Mixing of the components may 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.

ChemPruf 121 Thinner aids in the flow, wetting and application characteristics and is recommended when ChemPruf 121 is roller applied and is optional when brush applied.

1-Gallon Unit of ChemPruf 121

The following mixing instructions are for a batch size of 1.22 gallons (4.6 liters). Estimated coverage of the batch size is 188 ft² (17.5 m²) @ 10 mils (0.25 mm.). Proportionally increase or decrease component quantities to attain larger or smaller batch sizes.

A maximum of 4%, by volume, of ChemPruf 121 Thinner may be added to the 1-gallon unit of ChemPruf 121.

- Combine the contents of the 9 lb. 8 oz. (4.3 kg.) can of ChemPruf 121 Resin with 4 fluid ounces (120 ml.) to 6 fluid ounces (180 ml.) of ChemPruf 121 Thinner in a suitable mixing container. Mix thoroughly for two minutes as described above.
- Add the contents of the 2 lb. 6 oz. (1.1 kg.) can of ChemPruf 121 Hardener and mix thoroughly for two minutes as described above.

6-Gallon Unit of ChemPruf 121

The following mixing instructions are for a batch size of 1.18 gallons (4.5 liters). Estimated coverage of the batch size is 188 ft² (17.5 m²) @ 10 mils (0.25 mm.). Proportionally increase or decrease component quantities to attain larger or smaller batch sizes.

A maximum of 4%, by volume, of ChemPruf 121 Thinner may be added to the 1.18 gallons (4.5 liters) batch size of ChemPruf 121.

- Combine 115 fluid ounces (3.40 liters) of ChemPruf 121 Resin with 4 fluid ounces (120 ml.) to 6 fluid ounces (180 ml.) of ChemPruf 121 Thinner in a suitable mixing container. Mix thoroughly for two minutes as described above.
- Add the contents of the 2 lb. 6 oz. (1.1 kg.) can of ChemPruf 121 Hardener* and mix thoroughly for two minutes as described above.
*2 lb. 6 oz. equals 35.8 fluid ounces (1.06 liters).

MIX RATIO OF THE CHEMPRUF 121

	by Weight	by Volume
CHEMPRUF 121 Resin	100	100
CHEMPRUF 121 Hardener	25	31.2

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 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 and temperatures above 86°F (30°C). Protect from freezing. In unopened original containers, ChemPruf E Primer Resin and Hardener, ChemPruf 121 Thinner and ChemPruf 121 Resin and Hardener have a shelf life of approximately one year. ATLAS Carbon Powder can be stored indefinitely.

MAINTENANCE

Should the coating be damaged in any way, it can be repaired by thoroughly cleaning and reapplying the ChemPruf 121. Mix and apply in accordance with the instructions provided in this Installation Instructions sheet.

- Determine all areas that have been damaged.
- Grind or sand to expose the substrate 1" (25.4 mm.) to 2" (50.8 mm.) beyond the damaged area.
- Grind or sand the surface of the ChemPruf 121. Taper the ChemPruf coating to expose 2"

(50.8 mm.) to 4" (101.6 mm.) of each layer of the ChemPruf 121.

- Clean and remove all debris from Step (2.) and Step (3.).
- Apply ChemPruf E Primer to the substrate and exposed tapered edges of the ChemPruf 121.
- Apply the ChemPruf 121. Allow to harden.
- Apply additional coats of ChemPruf 121 as required.

Rezklad[®] E-Concrete Primer is a substitute for ChemPruf E Primer.

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.**