



Atlas Minerals & Chemicals, Inc.



DATA SHEET

T-4-410PI (2-03²)

CHEMPRUF 410 BROADCAST SYSTEM

DESCRIPTION

CHEMPRUF 410 BROADCAST System is a epoxy novolac vinyl ester flooring system applied at an average thickness of 20 mils (0.51 mm.) to concrete substrates.

TYPICAL USES

CHEMPRUF 410 BROADCAST System is designed for chemical, splash and spill environments providing a durable, economical coating system. The versatile easy-to-apply coating is excellent for foot or light forklift traffic areas.

CHEMICAL RESISTANCE

The CHEMPRUF 410 BROADCAST System provides excellent resistance to bleaches, sodium hypochlorite, a wide range of organic solvents, organic acids and both oxidizing and non-oxidizing acids. CHEMPRUF 410 BROADCAST System is specifically resistant to glacial acetic acid, chromic acid to 20%, nitric acid to 40%, sulfuric acid to 75% benzene, methyl ethyl ketone and styrene. Refer to the CHEMPRUF 2000 Series Chemical Resistance Chart, 4-2000, for specific information.

METHOD OF INSTALLATION

CHEMPRUF 410 BROADCAST System is designed to be applied with a roller, squeegee over concrete substrates. ATLAS AGGREGATES are broadcast into the wet basecoat and sealed with a second coat.

AVAILABLE COLORS

Standard colors of CHEMPRUF 410 BROADCAST System are gray and white.

PACKAGING AND COVERAGE

CHEMPRUF VE PRIMER

1-Gallon Unit (7 lb. 15.5 oz. [3.6 kg.]) Consisting of:

One - 1-gal. can of Resin (7 lb. 13 oz. [3.5 kg.])

One - bottle of Hardener (2.5 oz. [71 g.])

Coverage: Approx. 200 sq. ft. (18.6 m²) per unit

5-Gallon Unit (43 lb. 14 oz. [19.9 kg.]) Consisting of:

One - 5-gal. pail of Resin (43 lb. [19.5 kg.])

One - bottle of Hardener (14 oz. [397 g.])

Coverage: Approx. 1,100 sq. ft. (102 m²) per unit

CHEMPRUF 410

1-Gallon Unit (8 lb. 10 oz. [3.9 kg.]) Consisting of:

One - 1-gal. can of Resin (8 lb. 8 oz. [3.9 kg.])

One - bottle of Hardener (2 oz. [57 g.])

Coverage over primer: Approx. 190 sq. ft. (17.7 m²) per unit @ a thickness of 8 mils (0.2 mm.) wet

Coverage over aggregate broadcast to excess: Approx. 115 sq. ft. (10.7 m²) per unit @ a thickness of 10 mils (0.25 mm.) wet

5-Gallon Unit (46 lb. 11 oz. [21.2 kg.]) Consisting of:

One - 5-gal. pail of Resin (46 lb. [20.9 kg.])

One - bottle of Hardener (11 oz. [312 g.])

Coverage over primer: Approx. 1,020 sq. ft. (94.8 m²) per unit @ a thickness of 8 mils (0.2 mm.) wet

Coverage over aggregate broadcast to excess: Approx. 625 sq. ft. (58.1 m²) per unit @ a thickness of 10 mils (0.25 mm.) wet

CHEMPRUF FINISHER ADDITIVE

One 4 oz. (113 g.) can per one-gallon unit of CHEMPRUF 410 for final coat

ATLAS AGGREGATE No. 8 (Fine Finish)

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

Coverage broadcast to excess: Approx. 600 sq. ft. (55.7 m²) per bag

Coverage light broadcast: Approx. 2,000 sq. ft. (186 m²) per bag

SURFACE PREPARATION

CHEMPRUF 410 BROADCAST System 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 or acid washing are recommended surface preparation methods. 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.

MIX RATIO CHART - CHEMPRUF VE PRIMER

CHEMPRUF VE PRIMER	Weight	Volume
CHEMPRUF VE PRIMER Resin	7 lb. 13 oz. (3.5 kg.)	117 fl. oz. (3.5 liters)
CHEMPRUF VE PRIMER Hardener	2.5 oz. (71 g.)	2.1 fl. oz. (0.06 liters)
Batch Size	7 lb. 15.5 oz. (3.6 kg.)	119.1 fl. oz. (3.6 liters)

MIX RATIO CHART - CHEMPRUF 410

CHEMPRUF 410	Weight	Volume
CHEMPRUF 410 Resin	8 lb. 8 oz. (3.9 kg.)	118 fl. oz. (3.5 liters)
CHEMPRUF 410 Hardener	2 oz. (57 g.)	2.3 fl. oz. (0.07 liters)
Batch Size	8 lb. 10 oz. (3.9 kg.)	120.3 fl. oz. (3.6 liters)

TEMPERATURE DURING APPLICATION

Store CHEMPRUF 410 BROADCAST System and CHEMPRUF VE 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, CHEMPRUF 410 BROADCAST System and CHEMPRUF VE 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 CHEMPRUF 410 BROADCAST System to substrates that flex. Do not apply primer or coating when the relative humidity is greater than 75% or the substrate temperature is less than 5°F (3°C) above the dew point. Protect uncured primer and coating from moisture contamination until they can support foot traffic.

MIXING AND APPLICATION OF THE REZKLAD CHEMPRUF VE 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.

- Combine the contents of the cans of CHEMPRUF VE PRIMER Resin and Hardener in a suitable mixing container. Mix thoroughly for one minute.
- Apply CHEMPRUF VE PRIMER with a brush or short nap roller making sure to work it into the pores of the concrete. Do not allow puddling.
- Immediately after the primer has been applied, broadcast ATLAS AGGREGATE No. 8 into the wet CHEMPRUF VE PRIMER at a rate of approximately 1 lb. per 20 sq. ft.
- The primed surface should be dry before applying CHEMPRUF 410 BROADCAST System. CHEMPRUF VE PRIMER will support foot traffic in 2 to 4 hours at 75°F (24°C).

MIXING OF THE CHEMPRUF 410 BROADCAST SYSTEM

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.

1-Gallon Unit (8 lb. 10 oz. [3.9 kg.]):

- Combine the contents of the 1-gallon can (8 lb. 8 oz. [3.9 kg.]) of CHEMPRUF 410 Resin with the bottle (2 oz. [57 g.]) of CHEMPRUF 410 Hardener in a clean, dry plastic or metal container.
- Mix thoroughly for approximately two minutes.

5-Gallon Unit (46 lb. 11 oz. [21.2 kg.]):

- Combine 118 fluid ounces (3.5 liters) of CHEMPRUF 410 Resin and 2.3 fluid ounces (0.07 liters) of CHEMPRUF 410 Hardener in a clean, dry plastic or metal container.
- Mix thoroughly for approximately two minutes.

Note: For the second CHEMPRUF 410 application, combine the contents of one can (4 oz. [113 g.]) of CHEMPRUF FINISHER ADDITIVE to each 8 lb. 8 oz. (3.9 kg.) or 118 fluid ounces (3.5 liters) of CHEMPRUF 410 Resin. Mix thoroughly for approximately two minutes.

APPLICATION OF THE CHEMPRUF 410 BROADCAST SYSTEM

- Apply CHEMPRUF VE PRIMER as described in "Mixing and Application of the CHEMPRUF VE PRIMER".
- Apply an 8 mil (0.2 mm.) coat of CHEMPRUF 410 with a short nap roller.
- Uniformly broadcast ATLAS AGGREGATE No. 8 in excess into the wet CHEMPRUF 410 and allow to cure.
- After the CHEMPRUF 410 can support foot traffic, vacuum or sweep to remove any unbonded aggregate.
- Apply a 10 mil (0.25 mm.) coat of CHEMPRUF 410 with a flat rubber squeegee or short nap roller.

Note: If the CHEMPRUF VE PRIMER or CHEMPRUF 410 are allowed to dry for longer than 36 hours at 75°F (24°C), the surface must be sanded and cleaned before proceeding to the next step.

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 six months.

PRODUCT SPECIFICATION

The system shall be CHEMPRUF 410 BROADCAST System 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.**