



PHYLON® 1422 SERIES 620

PRODUCT PROFILE

GENERIC DESCRIPTION	Methylmethacrylate Acrylic
COMMON USAGE	Phylon 1422 is a non-yellowing, acrylic coating that highlights the natural color of masonry by providing a clear, semi-gloss sheen. The treatment does not alter the natural texture of the surface, nor significantly affect the vapor transmission qualities of the substrate. Phylon 1422 provides a durable, wet-look finish to exposed aggregate, ground-face block, sandblasted concrete and many other vertical concrete, masonry and natural stone surfaces. Repels water when used on dense substrates. Phylon 1422 can also provide sacrificial graffiti protection for virtually all vertical concrete and masonry surfaces. The protective film aids in preventing penetration of graffiti markings and spray paints allowing for faster and easier graffiti removal than from untreated surfaces.
COLORS	Clear. Dries to a clear, glossy finish. Treated surfaces will appear darker once product has cured.
PERFORMANCE CRITERIA	Contact your Chemprobe/Tnemec representative for specific test results.
LIMITATIONS	Phylon 1422 is not formulated for use on smooth-troweled horizontal or below-grade surfaces. It is not intended to seal visible cracks or as a substitute for repointing defective mortar joints. Phylon 1422 must not be applied to damp or wet surfaces and is not intended to provide water-repellency on CMU and other porous substrates. These substrates must first be treated with Prime-A-Pell or Dur A Pell if water-repellency is desired. When a darkened appearance is desired on porous substrates, two or more applications may be necessary. Phylon 1422 is not designed for use on garage floors or smooth concrete surfaces. Do not use below grade or on a horizontal surface that may be subjected to hydrostatic pressure.

COATING SYSTEM

SYSTEM	Phylon 1422 effectively repels water from dense surfaces such as precast panels and may be used in conjunction with solvent-based Prime-A-Pell or Dur A Pell on vertical surfaces to achieve water-repellency on porous surfaces.
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SURFACE PREPARATION

CONCRETE	Allow new concrete to cure 28 days. Verify dryness by testing for moisture with a "plastic film tape-down test" (Reference ASTM D 4263). Should moisture be detected, perform "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride" (Reference ASTM F 1869). Moisture content not to exceed three pounds per 1,000 sq ft in a 24 hour period. Abrasive blast, shot-blast or mechanically abrade to remove laitance, form release agents, curing compounds, sealers and other contaminants and to provide surface profile. Large voids, bugholes and other cavities should be filled with recommended filler or surfacer (Reference SSPC-SP13, ICRI CSP3).
ALL SURFACES	The surface to be treated must be sound, dry and free of cracks, dirt, oils, efflorescence, paint, curing compounds and all other contaminants which may affect the performance of Phylon 1422. Fill all cracks, voids and repoint mortar joints if necessary. New concrete and mortar must be allowed to cure a minimum of twenty-eight (28) days before treatment. Surface and air temperature must be between 40°F (4°C) and 120°F (49°C). Do not apply in direct sunlight when air temperature exceeds 90°F (32°C). Application at temperatures lower than 40°F (4°C) may reduce coverage rates and inhibit curing. Protect treated surfaces from rain and lawn sprinklers for 72 hours. New, smooth concrete should be scarified or acid etched prior to application. If Phylon 1422 is to be applied in conjunction with a solvent-based Prime-A-Pell or Dur A Pell water-repellent, for optimal performance allow the water-repellent to cure between 12 and 36 hours, then apply Phylon 1422. Shield glass, wood and other surfaces that are not intended to be treated from overspray. Any overspray should be removed immediately with lacquer thinner or toluene. Also protect asphaltic surfaces, trees, shrubs and other landscaping from overspray.

TECHNICAL DATA

VOLUME SOLIDS	20%
WEIGHT SOLIDS	25%
VOLATILE ORGANIC COMPOUNDS	5.8 lbs/gallon (700 grams/litre)
SOLUBILITY IN WATER	None
pH	N/A
ACTIVE INGREDIENT	Methylmethacrylate Acrylic
APPEARANCE	Clear liquid
PACKAGING	55 gallon (208.2 L) drums, 5 gallon (18.96 L) pails, 1 gallon (3.79 L) cans
NET WEIGHT PER GALLON	7.78 ± 0.10 lbs/gal (933 g/L)
STORAGE TEMPERATURE	Minimum 35°F (2°C) Maximum 100°F (38°C)
SHELF LIFE	24 months at recommended storage temperature.
FLASH POINT - SETA	69°F (21°C)
HEALTH & SAFETY	Paint and related products contain chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to use of this product. Use only in well-ventilated or open areas. Special precautions should be taken to avoid vapor transmission (fumes) from entering the building being treated. Ventilation systems and fresh air intakes should be turned off and closed. All direct routes of vapor ingress such as windows and doors must be secure. Notify occupants of the building prior to application, as vapors may be irritating. Keep out of the reach of children.

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APPLICATION

COVERAGE RATES

Coverage rates are guidelines and will vary depending upon the texture of the surface and porosity of the substrate.

Substrate	Sq. Ft./Gal.	m ² /litre
CMU (porous)	75 - 100	1.8 - 2.5
CMU (normal)	100 - 125	2.5 - 3.1
Concrete	125 - 200	2.5 - 4.9
Stucco	100 - 125	2.5 - 3.1
Precast	150 - 200	3.7 - 4.9
Fired Clay Brick	150 - 200	3.7 - 4.9

A test application **must** be performed to determine the exact coverage rate to achieve desired performance characteristics and aesthetic appearance before beginning a job.

THINNING

Do not dilute or thin. Phylon 1422 must be used as supplied by the manufacturer.

APPLICATION EQUIPMENT

Mix well prior to application. Apply using airless paint spray equipment, brush or deep nap roller. When using an airless sprayer, use a 0.015 or 0.018 fan spray tip and reduce pressure to point of minimal misting or fogging to produce a wet application. Multiple applications may be necessary when applying to porous substrates or when a high gloss is desired; when this occurs, allow 4 to 6 hours between applications. Multiple applications or a single, heavy application of Phylon 1422 on light colored substrates may result in an amber hue.

If graffiti protection is desired, apply two coats of Phylon 1422 at an average coverage rate of 100 to 125 square feet per gallon. Allow 4 to 6 hours between applications. Most graffiti removal techniques will result in damage or removal of the protective coating. Phylon 1422 must be reapplied to a clean, dry surface to maintain graffiti protection.

MAINTENANCE

None required. Life expectancy is dependent upon substrate condition, quality of application and surface use.

CLEANUP

Clean equipment after use with lacquer thinner or toluene.

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