

ACRYSHEEN

GRAFFITI RESISTANT ACRYLIC SEALER

Technical Data & Application Instructions

PRODUCT DESCRIPTION

ACRYSHEEN is a water-based, penetrating sealer designed to produce a clear, semi-gloss surface sheen. It is manufactured from non-yellowing, advanced acrylic resins to form a durable finish that provides long-term water-repellency, dirt and moderate graffiti resistance, and weather protection.

ACRYSHEEN'S low viscosity allows it to "wet in" and lock into the substrate. It will allow moisture vapor to escape from the building interior, yet provides excellent dampproofing characteristics on the exterior. The appearance will remain uniform, eliminating any blotchiness from water staining, even after years of service.

BASIC USES

ACRYSHEEN was specifically developed as a penetrating sealer for use over properly prepared smooth or textured concrete, exposed aggregate concrete, brick, stone or stucco surfaces where a semi-gloss sheen is desired. It also has the durability required for use over exposed aggregate and other surfaces on vertical or horizontal applications.

ACRYSHEEN imparts a slick, semi-gloss film over a variety of substrates, providing for increased dirt pick-up and graffiti resistance. It can be used as a topcoat over numerous types of new or existing finishes on roofs, walls and decks to provide sheen, graffiti resistance and/or ease of cleanability. It is also effective in rejuvenating aged and/or oxidized skylights.

ADVANTAGES

- * Facilitates graffiti removal
- * Protects against industrial airborne chemicals
- * Reduces soil and fume absorption
- * Minimizes run-down discoloration
- * Non-yellowing
- * Prevents moisture staining of surfaces
- * Minimizes efflorescence
- * Excellent ultraviolet resistance
- * Conforms to most VOC regulations
- * Reduces spalling and deterioration
- * Single package – No shelf or pot life problems
- * Water-Based – No flammable solvents
- * Long term durability

TYPICAL PROPERTIES TABLE 1

| Property | Value | Method |
|---------------------------------|-----------------------------------|------------|
| Solids by Weight | 19% (±.5) | ASTM D2369 |
| Solids by Volume | 18% (±.5) | ASTM D2697 |
| Weight per Gallon | 8.5 lbs (±.2) | ASTM D1475 |
| Dry Time* | 1 hour | ASTM D1640 |
| Cure Time* | 3 hours | ASTM D1640 |
| Gloss | 85 (±5) (60° Gardner) | ASTM D523 |
| Flash Point | >212°F (100°C) | ASTM D3278 |
| Low & High Temp. Service Limits | -40°F to 180°F (-40°C to 82°C) | |

* Dry and Cure Times at 75°F (24°C), 50% R.H.

GRAFFITI RESISTANCE TABLE 2

| Staining Agent | Cleaning Solution | Result | Finish Condition |
|-------------------|-------------------|-------------------|---------------------|
| Spray Paint (Red) | M.E.K. Solvent | Stain was removed | Finish was retained |
| Spray Paint (Red) | Lacquer Thinner | Stain was removed | Finish was retained |
| Ink Marker (Blue) | M.E.K. Solvent | Stain was removed | Finish was retained |
| Ink Marker (Blue) | Lacquer Thinner | Stain was removed | Finish was retained |

When tested in accordance with ASTM D6578-00 Section 9, both spray paint and ink marker were easily removed from ACRYSHEEN. No noticeable change in sheen or appearance was observed using ketone based cleaning solvents (M.E.K., Lacquer Thinner and most commercially available graffiti cleaning materials).

Successful removal of graffiti stains will vary greatly depending on type of graffiti material used, time that passes prior to cleaning and number of times graffiti is removed. UNITED'S most effective graffiti resistant coating is **Grffiti Shield**, which should be used in heavy graffiti areas.

ACRYSHEEN will protect the substrate against atmospheric deterioration with a clear, semi-gloss film that provides water-repellency and surface sheen without significantly altering the natural color or texture of the substrate.

UNITED recommends that a sample test area be applied, and approval be obtained, prior to any general application of the material. ACRYSHEEN may bring out the natural color of the particular concrete or masonry surface being sealed, resulting in a darkened appearance, as if wetted. Apply the test area on an inconspicuous area of the actual building to determine the optimum coverage rate to achieve uniformity of sheen, as well as to determine the suitability of the application technique.

SURFACE PREPARATION

All surfaces must be structurally sound, clean, dry, fully cured, and free of dirt, dust, oil, curing or form release agents, efflorescence, scale, or other contaminants that could inhibit optimum adhesion. Existing coatings that are loose, cracked or peeling must be completely removed.

ACRYSHEEN is a penetrating sealer designed to wet into the surface to which it is applied. Surfaces such as glazed brick, smooth dense brick, glass fiber reinforced concrete, and dense, steel-trowelled concrete must be etched or abraded prior to application of **ACRYSHEEN** to allow for maximum penetration. An adhesion enhancing additive is also available for application over tile and other slick surfaces. For application in high humidity areas, **ACRYSHEEN AR** will provide increased resistance to algae, mold and mildew growth.

ACRYSHEEN can be applied over most existing paints or coatings where additional sheen and/or cleanability is desired. As it will be unable to penetrate into the substrate on these applications, the existing finish must be sound and well adhered, as well as clean and dry.

ESTIMATED COVERAGE RATES

TABLE 3

| Substrate | Square Feet/Gallon Estimated Total* |
|-------------------|--|
| Concrete | 125 to 150 (3.0 to 3.9 m ² /l) |
| Exposed Aggregate | 75 to 100 (1.8 to 2.4 m ² /l) |
| Brick, Stone | 125 to 150 (3.0 to 3.9 m ² /l) |
| Stucco | 60 to 75 (1.4 to 1.8 m ² /l) |
| Existing Coating | 150 to 250 (3.9 to 6.1 m ² /l) |

* These estimates are totals for two separate applications. Apply approximately half the total number of gallons in each of the two coats. The above absorption (coverage) rates are provided for estimating purposes only. Coverage rates will vary with texture and porosity of the substrate. Allow for additional material when estimating coverage over highly textured or porous surfaces.

PACKAGING & MIXING

ACRYSHEEN is a single component, ready-to-use material available in 1 gallon (3.8 liter) cans, 5 gallon (19 liter) pails and 55 gallon (208 liter) drums. Thoroughly mix the containers to achieve a uniform consistency. Thin with clean water as necessary to achieve adequate viscosity for penetration into substrate being sealed.

Shelf life in unopened containers is 1 year from shipment from UNITED'S factory. Do not open containers until ready to use the material.



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APPLICATION INSTRUCTIONS

ACRYSHEEN shall be applied by airless spray equipment. Any airless spray equipment capable of 1,000 psi (6,980 kPa) and ½ gallon per minute (1.9 l/minute) delivery can be used for applying **ACRYSHEEN**.

For maximum production on large projects, airless spray equipment capable of 2,000 psi (13,780 kPa) and 1 gallon per minute (3.8 l/minute) delivery should be used.

A reversible self-cleaning spray tip with orifice size of .013" to .017" (.330 to .425 mm) and minimum 40 degree fan angle is recommended.

Brush or roller application is recommended only for edging work and for confined areas that would require extensive masking or protection from spray application.

ACRYSHEEN shall be applied in two separate applications except where a single application gives the desired surface finish characteristics. When spraying, each application shall be first in a uniform horizontal direction, followed by a uniform overlapping vertical direction. Gun shall be held not more than 18" (45 cm) from wall. Care should be taken during application to prevent runs or sags.

Thinning should not be necessary when applying **ACRYSHEEN** over exposed aggregate or other similar surfaces. Over dense substrates it may be reduced with clean water to achieve the desired consistency for adequate penetration.

Other restoration work and caulking should be completed prior to application of the **ACRYSHEEN**. Most standard caulking compounds are compatible with surfaces previously treated with **ACRYSHEEN**, however, field testing should be performed for confirmation.

Clean pump, tools and other equipment with fresh water. Flush water from the pump and hoses with Mineral Spirits for storage.

LIMITATIONS & PRECAUTIONS

ACRYSHEEN should not be applied over wet surfaces or wood substrates, however, concrete and masonry surfaces can be coated while slightly damp. In locations that are typically hot and arid, it can be beneficial to pre-dampen the surface prior to the application of **ACRYSHEEN**.

ACRYSHEEN is a water-based sealer. Care must be taken during storage and shipment to ensure that temperatures do not fall below 32°F (0°C). Do not apply **ACRYSHEEN** at temperatures below 50°F (10°C). Cool temperatures and high humidity will retard cure.

Avoid breathing of vapor or spray mist. Approved (MSHA/NIOSH) chemical cartridge respirator should be worn by applicator. For additional information on safety requirements, refer to OSHA guidelines and **ACRYSHEEN** Material Safety Data Sheet.