

AcrylicPoly DTM²

Acrylic Modified Polyurethane

TECHNICAL DATA SHEET



Zero VOC Water-Based Aliphatic Polyurethane Coating.

AcrylicPoly DTM² CSI Reference

| |
|-----------------------------|
| 03 35 00 Concrete Finishing |
| 04 2 00 Unit Masonry |
| 04 40 00 Unit Masonry |
| 05 05 13 Metal |
| 09 61/96 Finishes |
| 09 96 26 Finishes |
| 09 96 33 Finishes |
| 09 96 35 Finishes |
| 09 90 00 Finishes |
| 09 24/25 Finishes |

*standard warranty period is 5 years

Description

RainguardPro[®] AcrylicPoly DTM² Aliphatic Polyurethane is a high performance, zero-VOC, odorless, water-based, aliphatic paint/coating. AcrylicPoly DTM² is a primer/topcoat that can be applied to various substrates and provides years of excellent protection against harsh weather conditions, UV exposure, corrosion, physical damage, and has elastomeric properties. AcrylicPoly DTM² acts as a breathable waterproofer that can be applied directly to metal or masonry.

This product may be sprayed, brushed, or roller applied. AcrylicPoly DTM² is unique in that it has no VOC's due to its total water-based formulation. When fully cured, this product has good chemical acid resistance, UV protection, excellent water resistance, abrasion resistance, flexibility, and is environmentally safe.

Recommended Uses

- Food and Beverage Facilities
- Wood
- Plastic
- USDA Inspected Facilities*
- Sound Walls
- Metal - Ferrous/Non-Ferrous
- Municipal Projects
- Repaints
- Warehouse Floors
- Garage Floors
- Tile Floors and Walls (Glazed and Unglazed)

* Suitable for USDA inspected facilities

Features & Benefits

- Scratch resistant
- Non-yellowing & UV resistant topcoat

- Anti-carbonation protection
- Apply direct-to-metal and masonry
- Chemical and acid resistant
- Excellent as a protective floor coating, or topcoat applied over a primer epoxy, as a high-gloss, chemical/acid resistant topcoat for industrial concrete flooring applications
- Breathable elastomeric waterproofer

Coverage Rate by Substrate (theoretical)

The coverage depends on the surface. Test the product on a small area of the substrate to estimate coverage. Extremely porous surfaces may require multiple coats.

| Substrate | Sq Ft/ Gallon |
|----------------------|-------------------|
| Textured Surfaces | approx. 250 - 300 |
| All Masonry Surfaces | approx. 300 |
| Painted Surfaces | approx. 400 |
| Wood Surfaces | approx. 300 |
| Metal | approx. 400 |
| Tile | approx. 350 |

The use of fluted, scored block, raked joints, sandblasted or etched surfaces will result in greater absorption and lower coverage rates, by up to 40%. Test these areas for the expected coverage rate before general application. Allow for this increased surface area when determining material requirements.

Surface Preparation

Prior to application, all surfaces shall be clean and dry with no oils, dirt, debris, or minerals such as efflorescence, lime and calcium. These stains, along with others, will prevent proper penetration of AcrylicPoly DTM² to sufficiently seal for the warranty period.

The use of Rainguard's Restore-N-Prep[™] Concrete and Masonry Cleaner system is recommended as a pre-treatment to clean masonry surfaces. Once clean, allow the surface to fully dry before sealing or applying a topcoat (See the Restore-N-Prep[™] TDS for details).

Restore-N-Prep[™] CSI Reference

| |
|----------------------------|
| 03 01 40 Concrete Finishes |
| 03 10 30 Concrete Finishes |
| 03 10 50 Concrete Finishes |
| 04 01 20 Unit Masonry |
| 04 01 40 Unit Masonry |



Mixing Instructions

Stir for 2-3 minutes with jiffy blade at slow speed (500 RPM) to fully disperse the product.

Application Instructions

SMOOTH SURFACES

RainguardPro® AcrylicPoly DTM² may be applied directly over most surfaces without primer. Apply a light coat at a thickness of 3 to 4 wet mils.

POROUS SURFACES

Most porous surfaces should have a sealer or filler to adequately eliminate potential pinholes before applying RainguardPro® AcrylicPoly DTM².

1. Apply one coat of RainguardPro® AcrylicPoly DTM² (3 – 4 mils wet per coat). Allow 4 hours between coats or when coating is tack free.
2. Any runs should be brushed or rolled out immediately before drying.
3. When dry, thickness should be 1.5-2 mils*

*For heavy duty applications such as warehouse floors with heavy forklift traffic, DFT thickness should be 3-4 mils.

Dry Time: 45 minutes - 1 hour at 75°F

IMPORTANT: Proper methods to protect from over spraying should be implemented. Atomized particles will adhere to most surfaces and are extremely difficult to remove. Temperature and humidity directly affect dry time. Conditions should be between 40 – 95 °F (5 – 35 °C) and humidity should not exceed 80%.

Re-Application

Apply a second coat within 48-hours for proper adhesion. If the first coat has dried longer than 48-hours, abrade the surface to promote adhesion of the second coat.

Precautions

For horizontal applications it is the responsibility of the contractor to use Rainguard's slip resist or appropriate non-slip additive depending on the project conditions.

Use material in a well-ventilated area. Protect the work of other trades. Protect shrubbery and other plants with drop cloths. Protect automobiles and all other areas not to be coated from overspray. Remove overspray from any windows, automobiles, metal, etc. as soon as possible should it occur. To prevent permanent staining, clean spills or leaks in a timely manner.

All surfaces to be coated should be clean of any dirt and grime, efflorescence, lime run, form oils and release agents, grease, mud, excess mortar, and mold and mildew, etc. All cracks should be pointed or caulked. All voids, beeholes, masonry surface defects and openings such as conduits, pipes, drains, door frames, vents, air conditioner openings, electrical openings, control joints, or any dissimilar materials should be repaired using urethane or other approved patching.

Do not apply to surfaces if moisture content is greater than 25% as measured with an electronic moisture meter. Do not apply materials in climates where freezing temperatures have existed prior to application. Allow adequate time for surfaces to thaw. Establish that air, surface, and material temperatures are above 40°F (4.4°C) and at least 5°F above the dew point prior to painting. Do not apply at temperatures below 40°F when temperatures are expected to drop below 40°F within 48 hours of application. Do not apply if rain, snow, or lower temperatures are expected within 48 hours. Do not apply if relative humidity is greater than 90%.

Store materials in a well-protected area at 45° - 90°F. Avoid freezing temperatures, direct sunlight, & moisture. Keep away from heat sources.

Test Panel

Always apply AcrylicPoly DTM² onto a mock wall or test panel. Test the wall or an actual surface area to determine acceptable color, surface porosity, application rates and methods before starting general application.

Safe Handling

Use product only with adequate ventilation and/or an appropriate cartridge type respirator. Avoid contact with skin and wear protective gloves. Read the Safety Data Sheet before using.



Technical Data

| | |
|---------------------|-----------------|
| Solid by Weight (%) | 48% |
| Solid by Volume (%) | 45% |
| Dry Time | 45 min – 1 hour |
| Cure Time | 5 – 7 days |
| Pounds Per Gallon | 9.2 lbs/gallon |

Test Data

| TEST | RESULTS | TEST METHOD |
|-----------------------|---------------------------------------|----------------|
| Flash Point | >118°C (245 °F) | Tag closed cup |
| pH | N/A | -- |
| Specific Gravity | 1.05 | -- |
| Gloss | > 90 @ 16 °C (60°F) | Gloss meter |
| Gloss Loss | < 10% | ASTM D523 |
| Color Loss | < 1.1% | ASTM D2244 |
| Salt Spray | 1500+ hours | ASTM B117 |
| Humidity | 1500+ hours | ASTM D2244 |
| Abrasion | < 40mg | ASTM D4060 |
| Hardness | > 2H | ASTM D3363 |
| Adhesion | Pass | ASTM D2197 |
| Flexibility | Pass | ASTM D2794 |
| Surface Burning | Flame spread 0 Smoke development 0 | ASTM E84 |
| Odor | None | -- |
| VOC (g/L, less water) | 0 | -- |



Warranties

Rainguard Brands, LLC guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. Rainguard Brands, LLC makes no other warranty, expressed or implied, and all warranties of merchantability and fitness for a particular purpose are hereby disclaimed. Manufacturer or seller shall not be liable for prospective profits or consequential damages resulting from the use of this product. Manufacturer shall not be liable for material used outside of its shelf life. For product dating, please refer to the batch number on the product or contact Rainguard Brands, LLC.

Surface conditions and application variables are out of the control of Rainguard Brands, LLC. As such, the applicator agrees to: Follow recommended application instructions, acknowledge limitations outlined in this technical data sheet, contact the manufacturer in the event there any uncertainties, perform a test panel to confirm fit and finish before any general application. The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Rainguard Brands assumes no obligation or liability for use of this information. Contact manufacturer at 888-765-7070 before bidding to confirm warranty provisions and procedures.

SELLER'S LIABILITY UNDER THE SALE OF THIS PRODUCT IS LIMITED TO REPLACING DEFECTIVE PRODUCT. HOWEVER, IF SELLERS FAILS IN ITS ATTEMPT TO REPLACE THE DEFECTIVE PRODUCT, BUYER WILL BE ENTITLED TO A REFUND OF MONIES PAID TO SELLER UNDER THIS PRODUCT WARRANTY. SELLER IS NOT LIABLE FOR BUYER'S LOSS OF PROFITS, BUSINESS GOODWILL, OR OTHER CONSEQUENTIAL DAMAGES, DESPITE ANY FAILURE TO REPLACE THE PRODUCT. BUYER HAS ACCEPTED THIS RESTRICTION ON ITS RIGHT TO RECOVER CONSEQUENTIAL DAMAGES AS PART OF ITS BARGAIN WITH SELLER. BUYER REALIZES AND ACKNOWLEDGES THAT THE PRICE OF THE PRODUCT WOULD BE HIGHER IF SELLER WERE REQUIRED TO BE RESPONSIBLE FOR BUYER'S CONSEQUENTIAL DAMAGES."

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