

PRODUCT NAME
1,2K AQUA-THANE
 Water-Based Coating



MANUFACTURER:

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FEATURES:

- Water-based, simple and safe to handle
- Low odor and V.O.C. (Volatile Organic Compounds)
- Excellent elasticity and elongation properties
- Fast dry and early water resistance
- Non-staining
- Excellent scrubability and abrasion resistance
- Non-flammable
- Excellent water and chemical resistance
- Excellent clarity and block resistance
- Excellent leveling, flow, and microform-free properties
- Excellent adhesion to PVC and other plastics
- Mildew resistance property
- Outstanding exterior weathering and UV resistance

PRODUCT DESCRIPTION:

Basic Use:

AQUA-THANE is a single or two component, very durable and high performance water-based, self cross-linking Aliphatic Urethane coating. It is specially formulated to meet the conditions and properties required for plastics coatings, such as PVC and primed polypropylene.

AQUA-THANE is highly recommended for window and door frames, shutters and railings, surface treated polypropylene decorative columns, baseboards and pillars.

HEALTH AND SAFETY:

AQUA-THANE is nontoxic and nonflammable. However, we recommend use of rubber gloves. Avoid contact with eyes and prolonged contact with skin. If contact occurs, flush immediately with water. Seek

medical advice if irritation occurs. Harmful if swallowed, do not induce vomiting. Drink 1-2 glasses of water or milk. Keep product out of reach of children. Consult MSDS for additional information

PACKAGING:

AQUA-THANE is packaged in 1 gal, and 5 gal pails.

STORAGE AND TRANSPORTATION:

AQUA-THANE when stored in a dry, cool area has a shelf-life of 12 months. **Keep from freezing.**

TECHNICAL DATA:

Colour ASTM D-1729	Clear and pigmented Pass Visual Color Matching
Resin Type	Aliphatic Urethane
Percent Solids (A+B)	30+/- 2% (vol.) Clear 45+/-5% (vol.) Pigmented
Coverage DFT	11-12 M ² /lit @ 25 microns 300-500 ft ² /USG @ 2 Mils
Sheen (60°) ASTM D-523	Gloss (85-90%) Semi-gloss (70-80%) Low sheen (5-20%)
Drying Time @ 75°F (23°C), 55% Relative Humidity	1 hr/2hrs – to touch/recoat 24 hrs – light handling 7 days – full cure
Pot life (2K)	24 hrs
Pencil Hardness (ASTM 3363)	F-HB
Taber Abrasion) Resistance (ASTM D4060-01 (ISO 7784-2)	1000 cycles, CS-10 wheel: 20 mg loss
Elongation: (Mandrel Bend) ASTM D-522	300% , Pass 0.25", 180°
Water Immersion Test: ASTM D-870	Pass – No Blister After 500hrs @ 38°C
Accelerated Aging ASTM D-4587	Pass 1096 hrs QUV 98% Gloss retention
Adhesion on Vinyl, ABS ASTM D-2197	Pass 5-Rating
Impact Test ASTM D-2794	Pass Direct/Indirect >56 inch-lb
Reducer/Cleanup	Water
Viscosity 23°C (75°F)	65-90 KU
V.O.C. (Without water)	<150 grams/liter (1.25lb/gal)
Specific Gravity (Clear)	1.03 +/- 0.01 g/L 8.6 +/- 0.08 lb/gal
PH	8-9.5

SOLVENT RESISTANCE:*

MEK Double Rubs	100
IPA Double Rubs	100
Xylene Double Rub	100

STAIN RESISTANCE, 4 HOURS EXPOSURE:*

Black Marker	4	Ball Point Ink	4
Crayon	5	Lipstick	5
Shoe Polish	4	Ketchup	5
Iodine	2	Dye	5
Coffee	5	Tea	5
Water	5	Mustard	5
Nail Polish Remover	2	Nail Polish	5
50% Ethanol/Water	4	Urine	5

CHEMICAL RESISTANCE, 4HOURS EXPOSURE:*

10% Acetic Acid	4
2% Nitric Acid	5
10% Sulfuric Acid	5
10% Sodium Hydroxide	5

STAIN RATING:

(Rating: 5= Excellent, 4 = Very good slight stain, 3 = Good with stain, 2 = Fair, 1 = Poor, 0 = Failed)

❖ **All data are based on Croos-linked(2K) and forced dry (1K)AQUA-THANE and 3 Mils wet films**

COMPOSITION AND MATERIALS:

AQUA-THANE is a single or 2-component, water-based, self cross-linking Aliphatic Urethane coating

LIMITATIONS:

DO NOT USE THIS PRODUCT IF TEMPERATURE IS LESS THAN 10C (50F) AND HUMIDITY IS > 60%.

Similar to any water borne coatings, **AQUA-THANE** is not recommended to be used in wet environment, especially as floor coatings. Continuous pressurized water washing is not recommended

SURFACE PREPARATION:

All surfaces to be coated must be free of dirt, oil, and any other contaminants that may prevent proper adhesion. Clean plastic surface with Isopropyl Alcohol. For coating over Polyethylene or Polypropylene plastics always use adhesion promoter primers suitable for the PE and PP. Consult with Trendco sales representative for different Adhesion Promoter primers. For wood substrates pre-finished by UV curing coatings or other seamless coatings, use Acrylic SuperBond Primer, as the primer for sanding-free application. Note: The surface must be completely cleaned, rinsed and dried; otherwise the paint may not bond properly to the surface.

INSTRUCTION:

AQUATHANES are produced In two versions 2K and 1K : **2K AQUATHANE**-Is air dry ,for improved adhesion, water and solvent resistance, as well as better exterior durability small quantity of **CROSSLINKER** is recommended. The amount of cross-linker is 15-50 grams per gallon. The cross-linker should be added slowly under medium agitation with power tools. Pot life of cross linked coating is 18-24 hours.

1K AQUATHANE: Is forced dry, after application flush-out for 30 minutes and then cure 80C(180F) for 20 minutes or 60C(140) for 30 minutes,depends on softening point of plastics.

Roller, spray gun and brush can be used to apply **AQUA-THANE**. Recoat time between each coat is a minimum 1 hour and maximum 24 hours. **AQUA-THANE** can be applied with brush, roller or airless spray.

NOTE: Film Formation of **AQUA-THANE** depends on temperature and humidity. Minimum Film Formation Temperature is 10°C (50°F) and Maximum Relative Humidity is 60%.

As a rule, lower temperature and higher humidity results in longer curing time.

CLEAN UP: Wash all tools and equipment immediately with warm water and mild detergent.

MAINTENANCE: None required.

WARRANTY:

A limited twelve (12) month Material Replacement Warranty is available. For complete details contact Trendco Head Office.

TECHNICAL SERVICE

For advice on suitability of **AQUA-THANE** for a specific application, specification assistance and application instructions, contact Technical Service: 905-791-3378.