

Epoxy Acrylic DTM

Water Based, Low VOC

Specifications

DESCRIPTION:

Epoxy Acrylic DTM is two-component water based epoxy acrylic primer/finish designed for direct-to-metal applications over properly prepared surfaces. It dries to a tough finish that exhibits excellent durability and performance. **Epoxy Acrylic DTM** is a high build rust-inhibitive coating.

USE:

Epoxy Acrylic DTM is used to protect exterior and interior structural ferrous and nonferrous steel, institutional walls, and industrial machinery. **Epoxy Acrylic DTM**, used in conjunction with high build zinc rich primers, is suitable for moderate duty marine applications. **Epoxy Acrylic DTM**, applied as one part of a three-coat system, is suitable for bridge coating applications.

COLOR AVAILABILITY:

Factory colors available; refer to Triangle Industrial Products color card. Custom colors available; minimum order is required. Special costing will be applied.

ORDER CODE: 44 + gloss + color

Individual products are identified by the product series number, followed by a gloss identifier and color number.
Ex: 44G700 is Epoxy Acrylic DTM, Gloss, White
Ex: 44G382 is Epoxy Acrylic DTM, Gloss, Safety Yellow
G=Gloss
S=Semi-Gloss

PACKAGING:

Part A:	Part B:
1 gallon cans	1 pint
5 gallon pails (4 gal full)	1 gallon (1/2 full)
	2 quarts
55 gallon drums	

ADVANTAGES:

- Low Odor
- High film build in one coat
- Meets most VOC regulations
- Corrosion resistant
- Contains no heavy metals
- Ideal for new construction or maintenance applications
- Clean-up with water

LIMITATIONS:

- Not intended for immersion applications
- Not for below grade applications
- Shelf life: one year

Properties

DRY SCHEDULE: [at 50% RH and 3.0 mils DFT]

	45° F	60° F	85° F
Dry to Touch	2 hrs	90 mins	60 mins
Recoat	2 hrs	60 mins	40 mins
Dry to Handle	6 hrs	4 hrs	3 hrs
Full Cure	14 days	10 days	7 days

Critical Recoat Window: After two weeks power wash or mechanically abrade all surfaces.

VOC: [mixed] 157 g/l (1.3 lbs/gal)

FLASH POINT: [setaflash]..... > 240° F

WEIGHT PER GALLON: [mixed] 10.0 lbs

PACKAGE VISCOSITY: [as applied]

4 Zahn Seconds 40 - 50

SOLIDS: [average, mixed]

% By Weight 51.0

% By Volume 38.0

COVERAGE: [average]

Theoretical at 3.0 mils DFT 203 sq ft/gal

REQUIRED FILM THICKNESS:

ASTM D1005 Minimum Dried Film 3-4 mils (76-102µ)

ASTM D4414 Minimum Wet Film 8-11 mils (203-280µ)

[2 wet coats are required to obtain the correct DFT]

ASTM D523 GLOSS:

@ 60° 55-80

@ 20° N/A

ASTM D3363 PENCIL HARDNESS:

2H Pass

ASTM D5402 MEK RUBS:

50 Double Pass

ASTM D2794 IMPACT RESISTANCE:

60 inlb forward, 60 inlb reverse Pass

ASTM B117 SALT SPRAY RESISTANCE:

5% Salt Spray, 250 hours Pass

ASTM D5894UV CORROSION WEATHERING:

ASTM D610 Rusting 7 cycles, 200 hours Pass

ASTM D714 Blistering 7 cycles, 300 hours Pass

ASTM D4587/D523/D4214 QUV-UVA

500 hours @ 60° 10% loss

1000 hours @ 60° 20% loss

ASTM D2247/D714 HUMIDITY RESISTANCE:

200 hours Pass

ASTM D4585 MOISTURE CONDENSATION:

100° F, 400 hours Pass

ASTM D3359 ADHESION:

N/A N/A

ASTM D4060 ABRASION RESISTANCE:

CS17 wheel, 140 cycles, 1 kg load Pass

ASTM D522 FLEXIBILITY:

180° bend, 1/8" mandrel Pass

ASTM D3170 CHIP RESISTANCE:

Rating N/A

ASTM D2485 DRY HEAT RESISTANCE:

N/A N/A

ASTM D2243 WATER-BORNE FREEZE THAW:

3 cycles Pass

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Part A **44G700** White
 Part B **44B** Activator

Application Data

SURFACE PREPARATION:

Abrasive blast cleaned surfaces shall be tested by the Contractor for soluble salts using a Class A or B retrieval method as described in Technology Guide 15, "Field Methods for Retrieval and Analysis of Soluble Salts on Steel and Other Nonporous Substrates," of the "SSPC: The Society of Protective Coatings," and cleaned so the maximum level of soluble salts does not exceed the 10 micrograms per square centimeter.

Areas of abrasive blast cleaned steel shall be tested at the rate of 3 tests for the first 1,000 square feet prepared per day, and one test for each additional 1,000 square feet or portion thereof, at locations selected by the Engineer. When less than 1,000 square feet of surface area is prepared in a shift, at least 2 tests shall be performed. Additionally, the use of an iron phosphate will further enhance corrosion protection.

APPLICABLE SUBSTRATES:

- Direct to Ferrous or Nonferrous
- Direct to Galvanized
- Properly prepared concrete

RECOMMENDED PRIMERS:

920Z KoldGalv - 400 g/l VOC, light marine applications
283P609 Aquapoxy - 83 g/l VOC, ferrous and nonferrous substrates.

Consult your Triangle Coatings representative for other primer recommendations.

MIXING PARAMETERS:

Ratio: [Part A : Part B]
 By Weight 9 : 1
 By Volume 8 : 1
Sweat-in Time: 30 mins
ASTM D2196 Pot Life: [valid for qtls of 1 gallon or more]

50°F	65° F	75°F	85° F
2 days	2 days	1 day	1 day

APPLICATION:

HVLP:
 Fluid Tip and Needle:045"
 Fluid Pressure: 8-10 psi
 Air Cap Pressure: 60 psi

Air Assist Airless:
 Fluid Tip:017 - .018"
 Fluid Pressure: 800-900 psi
 Air Cap Pressure 10-15 psi

Airless:
 Fluid Tip:018 - .021"
 Fluid Pressure 1,800-2,000 psi

Brush or Roller: yes

THINNING: Water

CLEANUP: Water

Health & Safety

WARNING:

Combustible liquid and vapor. Harmful vapor if inhaled. Vapor may affect the brain or nervous system causing dizziness, headache, or nausea and can cause nose and throat irritation. Keep away from sparks, heat, or open flames. Use with adequate ventilation. Avoid breathing of vapor. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after using and before eating and smoking. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring demonstrates vapor levels are below applicable limits. Follow respirator manufacturer's directions for use. Keep container closed when not in use. If spillage occurs, absorb and dispose of according to local regulations.

NOTICE:

Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

FIRST AID:

Should eye contact occur, flush with plenty of water for at least 15 minutes and get medical attention if vision is disturbed. For skin, wash thoroughly with soap and water. If swallowed, seek medical attention immediately. DO NOT induce vomiting.

THIS PRODUCT IS FOR PROFESSIONAL USE ONLY.

KEEP THIS PRODUCT OUT OF THE REACH OF CHILDREN.

Shipping & Handling

SHIPPING DESCRIPTION: [CFR 49]

Ground, Air, Vessel Non Regulated Material
 Required Label & Marking Not Required

IMDG PACKAGING: Not Regulated

IMDG STOWAGE: Not Regulated

UNIFORM FIRE CODE: [CFR 29] CLASS III-B

STORAGE TEMPERATURE: 120° F max

SHELF LIFE: [warranted] 1 YEAR

HMIS RATINGS: H - 2; F - 0; R - 0; PP - B

WARRANTY: The statements made herein, on labels, product bulletins, or by any of Triangle Coatings', Inc. employees or agents concerning this product are given for general information only. Due to variables beyond Triangle's control in application, surface preparation, surface temperature, humidity and other variable factors Triangle assumes no liability for any claim that may arise out of the use of its products and disclaims any warranty expressed or implied relating to the storage, application, thinning, merchantability, Buyer's assumption of performance, and the fitness for a particular purpose. Receipt of products from Triangle or its agents constitutes acceptance of the terms of this warranty. In the event that Triangle finds that the product delivered is not of Triangle's standard quality, Triangle will at its sole discretion, either replace the product or refund the purchase price. Triangle's choice of one of these remedies shall be the Buyer's sole remedy. Triangle will under no circumstances be liable for consequential damages, except insofar as liability is mandated by law. Triangle will deliver products at agreed times insofar as it is reasonably able to do so, but it will not be liable for failure to deliver on time when the failure is beyond its reasonable control.