

# Trilon™ Clear

## High Performance, Non Yellowing, UV Resistant Protective Coating

### SELECTION DATA

#### DESCRIPTION:

**Trilon 360 Clear** is an extremely high performance two part air dry aliphatic acrylic urethane coating. It has extremely high gloss retention, is non yellowing and resists many chemicals (acids, alkalis and solvents). Also, **360 Clear** has excellent hardness, good flexibility, high resistance to abrasion, ultra violet light, moisture and salt water spray. It can provide a baked tile-like quality finish and has low solvent emissions. **Trilon Clear** does not contain 1,1,1, Trichloroethane. It may be applied by brush, roller, conventional electrostatic, airless, air assisted airless and plural component equipment. Also, it has direct adhesion to most plastic surfaces that normally require a primer.

#### USES:

Formulated for interior and exterior metal, wood, plastic, ceramic, masonry and graphic arts surfaces. Typically used on business signs, outdoor advertising signs, tile, sculpture and marine parts. Also, it is used to control graffiti. **Trilon 360 Clear** can be applied over properly prepared steel, aluminum, ceramic, plastic and wood surfaces. And may be applied to cured alkyd type enamels and artists acrylics without alligatoring.

#### ADVANTAGES:

- Very high gloss and gloss retention.
- Excellent hardness and abrasion resistance.
- Good flexibility.
- Ultra violet inhibiting.
- Resistant to most solvents.
- Non yellowing.
- High chemical resistance.
- Easily sprayed.
- Can be used to control graffiti.
- Lifting or wrinkling will not occur when **Trilon 360 Clear** is applied to well cured (one week) Dana-colors Bulletin Enamel.

#### DISADVANTAGES:

- Two part mix may present some loss of coating if not all used at the time of application.
- Urethanes may contain free isocyanates which are a health hazard. Applicators should use fresh air respirators, protective suits and gloves.

### PHYSICAL PROPERTIES

**VOC:** [mixed 3:1] ..... 335 g/l – (2.8 lbs./gal.)

#### APPEARANCE:

Gloss (G) @ 60° ..... 82 – 92

Class ..... Extreme high gloss

Matte (M) @ 60° ..... 15 ± 2

**WEIGHT PER GALLON:** [mixed] ..... 8.2 ± 1 lbs.

**FLASH POINT:** [mixed] [setaflash] ..... 60° F.

**PACKAGE VISCOSITY:** [mixed] ..... 65 – 90 KU

**SOLIDS:** [mixed @ 3:1]

By Weight ..... 57 ± 1%

By Volume ..... 44 ± 1%

#### COVERAGE:

Theoretical at 1 mil DFT ..... 700 sq.ft./gal.

Theoretical at 2 mils DFT ..... 350 sq.ft./gal.

Required Minimum DFT ..... 2 mils

[Spread rate is for unreduced catalyzed product and is dependant on surface texture to be painted and method of application.]

#### DRY SCHEDULE: [at 50% RH and 2 mils DFT] <sup>1</sup>

	65° F.	75° F.	90° F.	194° F. <sup>2</sup>
<b>Tack Dry</b>	1 hr.	30 mins.	15 mins.	NA
<b>Touch</b>	8 hrs.	4 hrs.	3 hrs.	NA
<b>Handle</b>	16 hrs.	8 hrs.	8 hrs.	40 mins.
<b>Full Cure</b>	30 hrs.	24 hrs.	16 hrs.	40 mins.
<b>Recoat</b> <sup>3</sup>	45 mins.	15 mins.	5 mins.	2 mins.

<sup>1</sup> Accelerated drying time available with Trilon 40-133 Promoter.

<sup>2</sup> Forced cured.

<sup>3</sup> Or after 24 hours which then requires sanding before recoating.

#### RESISTANCE TESTS:

Resistance data will be found in column two on the other side of this data sheet.

#### ORDER NUMBER AND COLOR:

360G900 ..... 100 % Clear  
Individual products are identified by the product series number, followed by a gloss identifier (G=gloss, M=matte) and ending in the color number. For example, 360G900 is **Trilon** (360) gloss (G) Clear (900).

#### PACKAGING:

1 gallon kit per case [UPS] ..... 10 lbs.

2 gallon kit per case [truck] ..... 23 lbs.

[Gallon kit contains ¾ full gallon & 1 full quart of hardener.]

5 gallon kit [¾ resin + 1 gal. & 1 qt. hardener] ..... 55 lbs.

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TRIANGLE™



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## APPLICATION DATA

### SURFACE PREPARATION:

- All surfaces should be free from dirt, grease, finger prints, rust and any other foreign matter.
- Surface and ambient temperatures must be above 45° F. and remain for 4 hours after application.
- Temperature must be minimum 5° F. above dewpoint and rising.
- Applied material must be protected from all forms of moisture until *Full Cure*.

### MIXING:

Mix 3 parts **Trilon 360 Clear** with 1 part 360 B Activator. When mixing, stir part A while adding part B. Add solvent, if required, only after activator has been added. Do not mix more than can be used in an 4 hour period.

### THINNING BY VOLUME FOR VOC RULE:

420 g/l VOC rule ..... 0 pts./gal allowable.  
500 g/l VOC rule ..... 2 pts./gal. AT46 reducer.  
These figures are for the maximum allowable.

### THINNER NOTE:

Do not use any wash thinners or thinners that might contain water for reducing this product.

### ANTI-GRAFFITI INFORMATION:

For proper surface protection and easy removal of the graffiti, enough coating must be applied to seal the surface thoroughly. The substrate will require at least two coats. On rough surfaces spray application is most effective method of application, however, application by brush or roller is permissible. If there is the possibility of moisture entering a masonry surface from behind, this coating should not be used.

**POT LIFE:** ..... 4 hrs. at 77° F.

### APPLICATION METHOD:

This product is designed to be sprayed although a brush or roller can be used.

**Airless:** **Trilon** requires large pumps and high pressure to atomize. Min. 1½ gpm pumps at 2500 – 3000 psi and .015 – .017 tips. When 20' vertical rises are necessary use larger pumps.

**Conventional:** .050 fluid nozzle, air cap suitable for available air and medium to heavy viscosity paints, 40 psi fluid pressure and 80 – 100 psi air pressure.

**CLEANUP SOLVENT:** ... Lacquer thinner or MIBK

## RESISTANCE TESTS:

Tests were conducted on Bondrite 1000® steel panel at 1.25 mils dry film thickness, cured for 40 minutes at 190° F. metal temperature and dried for ten days at 77° F. room temperature.

### Physical Resistance

Pencil Hardness ..... 2H  
Adhesion ..... Excellent (10)  
Abrasion Resistance ..... Excellent (113 mg.)\*  
Impact  
Direct ..... 60 inch lbs.  
Reverse ..... 40 inch lbs.

Humidity [ASTM D2447] ..... Blistering - 6MD  
5% Salt spray [ASTM B117] ..... Blistering - 6MD

\* [Taber: 133 mg. lost per 100 cycles with CS17 wheel at 1000 grams loading]

### Chemical Resistance [½ hour spot test and 1 hour recovery]

Isopropyl ..... Slight burnish-passed  
Methanol ..... Slight dulling-passed  
Acetone ..... Passed  
MEK ..... Passed  
Toluene ..... Passed  
Naptha ..... Passed  
Lacquer thinner ..... Passed

### Stain Resistance

Felt marker ..... Passed  
KOH-I-NOOR ink ..... Passed  
X-Y Recorder ink ..... Passed  
Lipstick ..... Passed  
Spray paint ..... Passed

## SAFETY AND HANDLING

**FLASH POINT:** [setaflash] ..... 63 F. (17.2° C.)

**SHIPPING DESCRIPTION:** [CFR 49]

**Ground/Air/Vessel:** ..... Paint, 3, UN1263, PG II

Required Label: ..... FLAMMABLE LIQUID

Required Marking: ..... PAINT UN1263

### IMDG PACKAGING:

FLAMMABLE LIQUID, class 3.2, UN1263, II

**IMDG STOWAGE:** ..... Category B

**UNIFORM FIRE CODE:** [CFR 29] ..... CLASS I-B

**STORAGE TEMPERATURE:** ..... 120° F. max.

**SHELF LIFE:** [warranted] ..... 1 Year

**"HMIS" RATINGS:** ..... H - 2; F - 3; R - 0; PP - H

(01/15/09)

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