

## MASTERTHANE TC 551

### PRODUCT CHARACTERISTICS

#### Description

Masterthane TC 551 is a two-component, glossy acrylic polyurethane coating, cured with aliphatic isocyanate, with good gloss and colour retention.

#### Recommended use

As a finishing coat for protection of structural steel in severely corrosive atmospheric environment, where light-fastness and gloss retention are required

#### Colors

Available in a variety of colours. Contact your Pacific Paint Sales / Technical for availability.

#### Product Data

Parameters	Values
Solid Volume	63 ±2 %
Gloss Level ( angles 60°C )	95°- 100°
Flash point	30°C (86°F) - Comp A 47°C (117°F) - Comp B (closed cup)
Density mix	1.25 - 1.3 gr/liter
Dry film Thickness	50 - 100 π
Wet Film Thickness	83 - 166 π
Theoretical Coverage Rates	12.6 - 6.3 m/liter
Dry Temp. Resistance	Continuous: 200°F (93°C) Non-Continuous: 250°F (121°C)
Limitations	Not recommended for immersion service. Masterthane TC 551 Comp B will absorb moisture and carbon dioxide when left in open containers. This may result in increased viscosity and some crystallization of the products. Therefore, all containers of these products should be kept tightly closed when not in use and stored inside in a cool; dry place

### SUBSTRATE & SURFACE PREPARATIONS

#### General

To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination that can reduce adhesion via SSPC-SP1 solvent cleaning

#### Metal

Abrasive blasting is recommended to remove rust and mill scale. Solvent clean surfaces according to SSPC-SP1, then perform a commercial blast to SSPC-SP6 for mild exposures. For immersion service and severe environments, solvent clean surfaces according to SSPCSP1 first, then perform a near-white blast SSPC-SP10.

#### Previously Painted Surfaces

All previously painted surfaces should be cleaned thoroughly to remove surface contamination. Rinse well and allow to dry. Scrape loose, scaly, peeling paint and sand the edges smooth, remove any rust and scale from ferrous metal. If the paint is glossy, sand to dull the surface.

## MASTERHANE TC 551

### MIXING & THINNING

#### Mixing

Power mix base, then combine and power mix with ratio as follows:  
Masterthane TC 551 Comp A : Masterthane TC 551 Comp B  
Comp A by volume : Comp B by volume = 10 : 1 by volume

#### Thinning

May be thinned up to 5% by volume with Thinner 5 for spray application

#### Pot Life

Pot life end when coatings become too thick to use. At 75°F (24°C) ~ 2 hours

### APPLICATION EQUIPMENT

Listed below are the general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

#### Spray application (general)

Use the adequate air volume for the correct operation. Use a 50% overlap with each pass of the gun. On irregular surfaces, coat the edges first, making an extra pass later. Agitate the mixed material continuously during application. If spraying stops for more than 10 minutes, recirculate the material remaining in the spray line.

#### Conventional spray

Agitated pressure pot equipped with dual regulator, a 3/8" I.D. minimum material hose. A 50' maximum material hose, a .70" I.D. fluid tip and an appropriate air cap. Use a 3/8" minimum I.D. material line. Hold the gun 8-10 inches from the surface and at the right angle.

#### Airless spray

Pump Ratio: 30:1 (mins)  
GPM Output: 3.0 (mins)  
Material Hose: 3/8" I.D. (mins)  
Tip Size: 0.017-0.019"  
Output PSI: 1500-2000  
Filter Size: 60 mesh  
PTFE packing are recommended are available from the pump manufacturer

#### Brush & Roller (ONLY recommended for stripe coating and small areas)

Spray application is preferred. May be brushed or rolled using a natural bristle brush or a short nap roller.

### APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	50°F (10°C)	35°F (2°C)	35°F (2°C)	0%
Maximum	100°F (43°C)	120°F (49°C)	95°F (35°C)	80%

Do not apply or cure the material when the surface temperature is below 50°F (10°C) or less than 5°F (3°C) above the dew point. Special thinning and application techniques maybe required above or below normal conditions.

### DRYING TIME

Surface Temperature	Surface Dry (hours)	Hard Dry (hours)	Cured (days)
80°F (27°C)	2.75	5	7
90°F (32°C)	2	4	6
100°F (38°C)	1.25	3	5

## MASTERHANE TC 551

### HEALTH AND SAFETY

#### Safety

Read and follow all caution statements on this product datasheet and on the MSDS for this product. Employ normal workman like safety precautions. Use adequate ventilation and wear gloves; or use protective cream on face and hands if hypersensitive. Keep the container closed when not in use.

#### Ventilation

When used in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. User should test and monitor the exposure levels to ensure all personnel are below guidelines. If not sure or if not able to monitor the levels, use an OSHA/NIOSH approved respirator.

#### Caution

This product contains flammable solvents. Keep away from sparks and open flames. In confined areas, workmen must wear the appropriate respirator protection. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen should be required to use nonferrous tools and wear conductive and non-sparking shoes.

#### Clean up

Use Thinner 5 In case of spillage, absorb, and dispose of in accordance with the local applicable regulations.

### PACKAGING, HANDLING AND STORAGE

#### Shipping Weight (Approximate)

5Liters Set:	Comp A = 4.55 Liters ( 7.49 Kg ) Comp B = 0.45 Liters ( 0.5 Kg )
20Liters Set:	Comp A = 18.18 Liters ( 29.93 Kg ) Comp B = 1.82 Liters ( 2.04 Kg )

#### Handling

Handle with care. Before and during use, observe safety labels on packaging and paint containers and follow all local and national safety regulations. Always consult Pacific Paint's Safety Data Sheet for this product along with the Product Data Sheet.

#### Storage Temperature & Humidity

Temperature : 40 - 110°F(4-43°C)  
Humidity : 0 - 100%

#### Shelf Life

24 / 48 months minimum at 32°C (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers. Comp A : 24 months. Comp B : 48 months

### WARRANTY

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Pacific Paint Factory to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Pacific Paint Factory quality control. We assume no responsibility for coverage, performance, injuries or damages resulting from use. Pacific Paint Factory sole obligation, if any, is to replace or refund the purchase price of the Pacific Paint product(s) proven to be defective, at Pacific Paint Factory option. Pacific Paint Factory shall not be liable for any loss or damage.

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