



Head Office
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5091
6091
8091

9:1
Polyurethane Enamel

Material Description

A modified aliphatic polyurethane, providing full gloss with excellent impact resistance and weatherability. Available in a wide range of custom colors.

Intended Applications

For use on industrial equipment and machinery, oil and gas process equipment, piperacks, storage tank exteriors, drilling and service equipment and structural steel.

Colors Available

Various colors available

Finish

Gloss 85+ @ 60 deg

Physical Properties

Resin System

Modified aliphatic urethane

Pigment System

Solvent System

Aliphatic and aromatic hydrocarbons

Packaged Viscosity

8.0+/-0.5 Poise @25C depending on color

Solids by Weight

53% depending on color

Solids by Volume

43% depending on color

Theoretical Coverage

approx 158 - 174 sq ft/L Depending on Color

Total VOC

500-550 g/L Depending on Color

Wet Film Thickness

4.0 - 8.0 mils

Dry Film Thickness

2.0 - 4.0 mils

Specific Gravity

0.96 - 1.12 depending on color

Dry to Touch *

5091 - 2 hours

6091 - 1 hour

8091 - 30 minutes

Dry to Handle *

2 hours

2 hours

2 hours

Dry to Recoat *

Before 1 hour and after 24 hours

Pot Life Hours

6 hours

Coats Required

1-2

Components

2

Use With

N/A

Recommended Thinners

Xylene or TS-28 Slow Reducer

Additional Application Notes

* Times listed are at 25°C. Temperature and humidity will affect dry and recoat times.

Date Issued 20/04/2009

Supersedes 20/04/2004

The above information is given in good faith and to the best of our knowledge. Every reasonable precaution is taken in the manufacture of all products and compilation of data to ensure that they are consistent with the Manufacturer's standards. As the effectiveness of each product depends, in part, on correct methods of use and application, and since the conditions of the surface, application and method of use are beyond our control, no guarantee of such products or this data is made or implied by this. By virtue of this disclosure, it is the responsibility of the buyer to satisfy itself of the suitability of the goods for its own particular process and it will be deemed to have done so by virtue of accepting the goods on this understanding.



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Required Surface Preparation and Application Parameters

| | | | |
|--------------------------------|---|----------------------------|-------------------------|
| Surface Preparation | Surfaces must be free of dirt, grease, and oil. Steel surfaces must be thoroughly cleaned, a minimum SSPC SP-3 power tool cleaning is required. SSP - SP6 Commercial Blast Cleaning is Preferred. | | |
| Atmospheric Conditions | Surface and product temperatures must be at least 10 deg C (50 F) and at least 3 deg C (5F) above dew point. Apply in dry weather when relative humidity is less than 85%. | | |
| Blend Ratio | 9 parts A 1 part B | | Induction Period |
| | | | 15 minutes |
| Reduction | Airless (5-10%) / A.A. Airless (10-20%) | | |
| Application Viscosity | Airless (28" Z #2) / A.A. Airless (24" Z #2) | | |
| Force Cure | 60 min @ 70 deg C (160F) after 30 min flash off | | |
| Airless Pressure | 1400-2000 PSI min at tip | Airless Tip Size | 0.0011" - 0.015" |
| AA Airless Pressure | 850 PSI min at tip | AA Airless Tip Size | 0.009" - 0.013" |
| AA Airless Air Pressure | 30 - 60 PSI | | |
| Conventional Spray | | | |
| Brush | Polyester or nylon | Roller | Short nap |
| Procedure Part 1 | Rinse all equipment with thinner prior to and after application. | | |
| Procedure Part 2 | When application is made by airless or air assisted airless, use and inbound pressure approx. 10-15 lbs above the level at which "fingering" | | |
| Procedure Part 3 | Special attention should be given to all edges, pits, welds, corners, rivets and other rough spots to insure complete coverage. | | |

Additional Information

| | |
|---------------------------|--------------------------------------|
| Package Sizes | 3.78 litres, 18.9 litres, 180 litres |
| Safety Information | See label precautions and MSDS. |

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