

Technical Data Sheet: Ref: TDS-HPC-0001-V02

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Date of issue: June 2017

## A414-3005

### POLYURETHANE TOP COAT

<b>GENERIC TYPE</b>	Polyurethane	
<b>DESCRIPTION</b>	A414-3005 is two components; aliphatic isocyanate cured polyurethane topcoat.	
<b>RECOMMENDED USE</b>	As a protective finish coat for protection of structural steel where superior performance, attractive appearance gloss, retention and high corrosion resistance is required such as chemical plants, pulp & paper mills, off-shore platforms, petroleum refineries and containers.	
<b>FEATURES</b>	<ul style="list-style-type: none"> <li>-High weather and chemical resistance</li> <li>-Excellent gloss and color retention</li> <li>-Easy to clean</li> <li>-Excellent UV resistance</li> </ul>	
<b>PHESICAL PROPERTIES</b>	Finish	Semi gloss - Gloss
	Color	Upon request
	Solid by volume	55±5%
	Specific Gravity	1.3±0.1 gr/cm <sup>3</sup>
	Flash point	28 °c
	Recommended D.F.T.	40-60 microns
	Theoretical coverage	15-8.33 m <sup>2</sup> / Lit
		Practical coverage depends on loss factor
	Touch dry	5 hrs. at 20° c
	Hard dry	24 hrs. at 20° c
	Full Cured	7 days. at 20° c
	Thermal resistance	Max. 120° c (dry exposure)

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## APPLICATION

Application method	Air/Airless spray, Brush, Roller
Surface temperature	10-40 °c
Mixing ratio(by weight)	5:1
Packaging(A+B)	20KG+4KG
Hardener(B)	A275-2007-50
Thinner/Cleaner	A840-0414
Recoat interval	Min 16 hrs.at 20°C, Max 7 days. at 20 °c
Pot Life	5 hrs. at 20 °c
Application condition	Apply only on a dry and clean surface with a temperature above the dew point to avoid condensation Environment Temperature should be 10 °C min and 40 °C max and Relative humidity: 80% maximum.
Nozzle orifice	0.017"-0.021"
Nozzle pressure	150 bar/2175 psi Airless spray is indicative and subject to adjustment

## SURFACE PREPARATION

The surface must be clean and dry. All dirt, grease, and any other foreign materials should be removed. For old coated surfaces, it may be necessary to roughen the surface

## SAFETY PRECAUTIONS

Detail information is given on Material Safety Data Sheet (MSDS). Avoid inhalation of spray mist or vapor. Avoid skin and eye contact. Paint contacted with skin should be immediately removed with water and/or suitable cleanser. Eyes should be flushed with water and seek immediate medical attention. Since this product contains flammable solvents, keep away from sparks and open flames. Application and handling of this product should be in compliance with relevant national regulations.

## STORAGE

Store in dry, cool condition and away from sources of heat and ignition. Containers must be kept tightly closed. Store conditions shall be in accordance with national regulations.

## SHELF LIFE

12 months from date of production.

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