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Date Issued: 15 January 2014

2PK ACRYLIC POLYURETHANE

Product Line: 76

Product Code: 76XX04; 76XX20 where XX represents digits for colour codes.

Description

2PK Acrylic Polyurethane is a two pack, chemical resistant gloss coating designed for maximum durability and harsh environments where outstanding gloss, colour retention and abrasion resistance is required. Earth moving equipment, road tankers etc are some common areas where 2PK Acrylic Polyurethane is used.

Uses

2PK Acrylic Polyurethane is usually applied by industrial spray painters to heavy equipment such as earth moving equipment etc where harsh working conditions are encountered on a regular basis.

Surface Preparation

All surfaces must be well prepared and free from dirt, oil, grease and other contaminants. 2PK Primer which is a two-pack epoxy-polyamide coating is recommended as a suitable primer. When repainting equipment sharp edges should be feathered sanded and spot primed as necessary.

Application Method

Stir contents of can thoroughly with a wide flat stirrer ensuring the bottom of the can is reached or alternatively use a power mixer but avoid aeration of the product. 2PK Acrylic Polyurethane is designed primarily for application by spray.

Brushing and roller application should be confined to small sections.

Mix 4 parts 2PK Acrylic Polyurethane Part 'A' to 1 part 2PK Acrylic Polyurethane Hardener Part 'B' by volume before use and allow to stand for 10 minutes prior to use.

NOTE: Spray application of 2PK Acrylic Polyurethane requires self-contained, air-fed hoods to be worn during application.

Do not apply 2PK Acrylic Polyurethane below 12 deg. C (or is likely to fall below 12 deg. C) before the paint can dry thoroughly.

Brush/Roller

Not recommended except for small areas.

Spray

Conventional spray: May be applied by conventional high-pressure spray application. Suggested equipment is atomization pressure approximately 350 – 420 kPa (50 – 60 psi) and a 2mm nozzle. Ensure moisture traps on airlines are clean and effective.

Airless spray application: pressure at nozzle 15MPa (2100 psi); nozzle tip 0.33 – 0.46mm (13 – 18 thou) with a spray angle of 40 - 80°. Ensure filters are clean.

Typical Coating System

2PK Primer	1 coat	80 microns WFT	36 microns DFT.
2PK Acrylic Polyurethane	1 coat	80 microns WFT	36 microns DFT.

Thinning

Not usually required, however it may be thinned upto 10% by volume with Polyurethane Thinners.



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Approximate Coverage

Typical: Wft: 75 microns Dft: 34 microns Coverage: 13.25 m²/ lt.

Colours Available

White and a full range of colours.

Drying Times

Approximate drying times at 25°C and 50% Relative Humidity.

Substrate Temperature	Surface Dry	Hard Dry	Cured	Recoat
12 °C	3 hours	10 hours	10 days	Minimum 20 hours
23 °C	70 minutes	6 hours	7 days	Minimum 6 hours
35 °C	45 minutes	4 hours	2 days	Minimum 2 hours

Drying Times may be extended by adverse drying conditions or at high film build.
Pot-life of mixed product is approximately 4 hours at 23 °C.

Cleanup

Clean all equipment promptly with Polyurethane Thinners.

Properties

SOLIDS by VOLUME: 46%
SOLIDS by WEIGHT: 56%
WEIGHT PER LITRE: 1.0 – 1.2kg after mixing.
GLOSS LEVEL: Full Gloss.
DURABILITY: Excellent.
VOC (mixed, no thinning) 478 grams/ litre.

Resistance Properties

ABRASION: Very Good.
HEAT: Very Good.
SOLVENT: Very Good.
WATER/STEAM: Very good.
WEATHER: Excellent.

Additional Information

2PK Acrylic Polyurethane is designed to be used by professional applicators using spray equipment. Operators spraying isocyanate-containing paints must wear an air fed hood and read the SDS prior to use.

2PK Acrylic Polyurethane contains flammable solvents. Keep away from heat and open flame. When applying in confined spaces use an airline respirator.