



279 SUPERTHANE

NOVEMBER 2005

2K Alkyd Polyurethane

Product Data

Superthane is a two pack alkyd polyurethane spraying enamel with the following features:

- Hard, high gloss finish in a range of colours.
- Very good exterior durability.
- Resistant to a wide range of chemicals and cleaning agents.
- Excellent abrasion resistance.
- Good solvent resistance.

The hardeners are based on aliphatic polyisocyanate.

Uses

For use on structural steel, agricultural equipment, trucks, buses – surfaces where a durable, chemical resistant, easily cleaned surface is required.

Note – Superthane Clear is not for exterior use.

Colour Availability

Black, White and Tinted colours available at Point Of Sale.

Packaging

279A Base – 1L, 4L

279B Hardener – 250ml, 1L

279BF Hardener – 250ml, 1L

279H Hardener – 250ml, 1L

279HF Hardener – 250ml, 1L

Substrates

Steel and ferrous alloys, suitably primed.

Aluminium / galvanised steel – MUST be preprimed with 719 Polyetch.

Sanded original baked enamel or 2K enamel in good condition.

Thinning and Clean Up

When catalysed with 279B or 279BF, thin as follows:

- Normal conditions – 10-20% with 475
- Warm conditions – 10-20% with mixture of 475 and 312
- Cold conditions – 10-20% with 254

When catalysed with 279H or 279HF, thinning is not required.

Application

Spray – Conventional, pressure pot, airless.

Do NOT apply by hot spray.

Brush – Small areas only.

Drying

Dust free – 30' (279B or 279H) , 25' (279BF or 279HF)

Print free – 4 hours (279B or 279H), 1 hour (279BF or 279HF)

Dry to tape – 24 hours

Hard dry – 24 hours

Cut and polish – 36 hours to 7 days (depends on ambient conditions).

Recoat time – Wet on wet, under 2 hours OR over 24 hours with sanding.

Note – Accelerated drying of 279 Superthane may be achieved by low baking for a minimum of 30' @ 80°C, with the addition of 279D Baking Accelerator.

Theoretical Coverage

Approximately 8.7 sq. m/litre @ 40µm DFT (catalysed) with 279H or 279HF.

Practical coverage rates will be lower than theoretical and this must be taken into consideration when calculating costs.

Mixing Ratio

Mix 2L 279A Superthane with 1L 279H or 279HF Hardener

Mix 4L 279A Superthane with 1L 279B or 279BF Hardener

Pot Life

8 hours – using 279B or 279H, 2 hours – using 279BF or 279HF

Surface Preparation

Steel – Remove rust by blasting to SA2.5, or by using power tools or sanding. Degrease.

Aluminium – Degrease, then scour with Scotchbrite. Degrease again.

Galvanised steel – Clean and degrease. Use a proprietary acid wash if surface has been chromate treated.

Original finish – Sand and dust down. Degrease.

Safety Precautions

Read each component's material safety data sheet before use. Mixed material has hazards of each component. Safety precautions must be strictly followed during storage, handling and use.

Health and Safety

Avoid breathing vapour. Use with adequate ventilation. High concentrations of vapour may cause headache or nausea, affect the nervous system and respiration. When catalysed this product contains isocyanates, which are harmful by inhalation. Refer to Code of Practice for the Safe Handling of Isocyanates 1989 (or updates) for details on handling isocyanate material.

Do not use in the presence of naked flame or other sources of ignition. Store away from heat.

Wear safety glasses / goggles, an air supplied respirator or hood and PVC or nitrile chemical handling gloves. Persons with a history of respiratory problems are advised not to use this product or any other two pack polyurethane.

Store / dispose of residues in accordance with local body regulations.

First Aid

If poisoning occurs, contact a doctor. The Poisons Information Centre may be of assistance – telephone 0800 POISON (0800 764 766).

If swallowed, do NOT induce vomiting. Give a glass of water to drink and get medical attention urgently.

If affected by vapour, get into fresh air immediately.

If splashed into the eyes, flush them with copious quantities of clean water for 15 minutes and get urgent medical attention.

If splashed onto skin, wash with soap and water.

For further information, refer to the Material Safety Data Sheet for this product.

CAUTION:

Improper use and handling of this product can be hazardous to health.

Do not use this product without first taking all appropriate safety measures to prevent property damage and injuries. These measures may include, without limitation: implementation of proper ventilation, use of proper lamps, wearing of proper protective clothing and masks, tenting and proper separation of application areas. Consult your supervisor. Proper ventilation and protective measures must be provided during application and drying to keep spray mists and vapour concentrations within safe limits and to protect against toxic hazards. Necessary safety equipment must be used and ventilation requirements carefully observed, especially in confined or enclosed spaces, such as tank interiors and buildings.

This product is to be used by those knowledgeable about proper application methods. PPG Industries makes no recommendation about the types of safety measure that may need to be adopted because these depend on application environment and space, of which PPG Industries is unaware and over which it has no control.

If you do not fully understand these warnings and instructions or if you cannot strictly comply with them, do not use the product.



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Substrate Systems

Preparation

Steel – Remove rust, clean and degrease, or blast to Class 2 ½ if indicated

Aluminium – Scour with Scotchbrite and degrease

Galv – Clean and degrease

Substrate / Recommended System	DFT (Microns)	Overcoat Time @ 20 Degrees C	Overcoat Preparation
STEEL			
1 st coat 178HS Primer	50-75	16 hrs	Sand 360
OR 1894 Etch Primer	20-25	1-6 hrs	N/A
2 nd coat 279 Superthane	37-50	16 hrs plus	Sand 320
STEEL (Aggressive conditions)			
1 st coat 719 Polyetch	7-10	1-8 hrs	N/A
2 nd coat CC22/1	50-75	16 hrs plus	Sand 360
		3 hrs – 1 mth	N/A
OR 178 HS Primer	50-75	16 hrs	Sand 360
3 rd coat 279 Superthane	37-50		
STEEL (Aggressive conditions)			
Blast to Class 2 ½			
1 st coat CC22/1	50-75	16 hrs plus	Sand 360
2 nd coat 279 Superthane	37-50	3 hrs – 1 mth	N/A
ALUMINIUM / GALV (2 coat system)			
1 st coat 719 Polyetch	7-10	20' – 8 hrs	N/A
2 nd coat 279 Superthane	37-50		
ALUMINIUM / GALV (3 coat system)			
1 st coat 719 Polyetch	7-10	1-8 hrs	N/A
2 nd coat CC22/1	50-76	16 hrs plus	Sand 360
		3 hrs – 1 mth	N/A
OR 178HS Primer	50-75	16 hrs	Sand 360
3 rd coat 279 Superthane	37-50		

DFT = Dry Film Thickness

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