



579 CAPRITHANE

NOVEMBER 2005

2K Acrylic Urethane

Product Data

Caprithane is a two pack acrylic polyurethane spraying enamel, with the following features:

- Fast drying
- Hard, high gloss finish.
- Excellent exterior durability, highly resistant to yellowing and chalking.
- Good UV resistance – contains UV absorbers.
- Resistant to a wide range of chemicals and cleaning agents:
 - 5% Aqueous Sodium Hydroxide – no effect
 - 5% Aqueous Hydrochloric Acid – slight gloss loss, no softening.
- Excellent abrasion resistance.
- Excellent heat resistance: 110°C continuous, 130°C intermittent.

The hardener is based on aliphatic polyisocyanate.

Uses

Caprithane is suitable for a wide variety of end uses where a durable, tough, chemical resistant finish is required – trucks, buses, machinery, excavators etc.

Colour Availability

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

Available in G15, G30, G50, G75 and full gloss.

Packaging

579A Base: 1L, 4L

579B Hardener: 250ml, 1L

579BF Hardener: 250ml, 1L

579BR Hardener: 250ml, 1L

579H Hardener: 250ml, 1L

579HF Hardener: 250ml, 1L

579HW Hardener: 250ml, 1L

Thinning and Clean Up

When catalysed with 579B, 579BF, 579BR thin as indicated:

1. Solid Colours:

Normal conditions: 20-40% 475 Enamel Reducer MI

Very warm conditions: 20-40% of a mixture of 475 Enamel Reducer MI and 539R Acrylic Retarder.

2. Metallics: 50-75% 254 Reducer MF.

When catalysed with 579H, 579HF, 579HW, thin as indicated:

1. Solid Colours:

Normal conditions: 5-15% 475 Enamel Reducer MI

Very warm conditions: 5-15% of a mixture of 475 Enamel Reducer MI and 539R Acrylic Retarder.

2. Metallics: 25-50% 254 Reducer MF.

Clean gun and equipment with 254 or 475 Reducer.

Application

Spray – conventional, pressure pot, airless.

Do NOT apply by hot spray.

Brush – small areas only.

Not recommended for Dip or Flowcoat because of limited pot life.

1. Solid colours – Apply first a dry tack coat, followed by two wet coats. Care should be taken to avoid dry spray areas.

2. Metallic colours – The use of lacquer set up for guns gives superior results. Apply 1st coat as a light, wet coat. Allow to flash off (10 mins) then apply further light, wet coats until hiding has been achieved. It is recommended to apply clearcoat over metallic coat for improved gloss and flow. Thin clearcoat 50%. Apply in two light, wet coats, with flash-off between coats

Substrates

Steel and ferrous alloys, suitably primed.

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

Wood / MDF – suitably primed.

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

Mixing Ratio

Mix 4L 579A with 1L 579B or 579BF or 579BR Hardener

Mix 2L 579A with 1L 579H or 579HF or 579HW Hardener

Pot Life

8 hrs (579B or 579H), 2 hrs (579BF or 579HF), 3 hrs, below 15C (579BR or 579HW)

Theoretical Coverage

Approximately 8.7 sq. m/litre @ 40µm DFT (catalysed with 579H/579HF/579HW)

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

Surface Preparation

Steel – Remove rust by blasting to SA2½, or by using power tools or sanding. Degrease.

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

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

Wood – Sand and dust down.

MDF – Sand faces with 150 grit, edges with 120 grit followed by 180 grit in the opposite direction.

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.

Drying

At 16-25 deg C:

Dust Free: 30' (579B or, 579H) 10' (579BF, 579HF)

Print Free: 2 hrs (579B or 579H), 1 hr (579BF or 579HF)

Dry to Tape: 16-24 hours

Hard Dry: 16-24 hours

Cut & Polish: 36 hrs to 7 days (depends on ambient conditions).

Recoat Time: Wet on wet, under 2 hrs OR over 24 hrs with sanding.

At 5-15 deg C, using 579HW or 579BR and 254 Reducer:

Dust free: 10'

Print free: 1 hr

Dry to tape: 16-24 hrs

Cut & polish: 36 hrs to 7 days

Recoat time: Wet on wet, under 2 hrs or over 24 hrs with sanding.

Note – Accelerated drying of 579 Caprithane may be achieved by low baking for a minimum of 30' @ 80C, with the addition of 579C Accelerator. (579C not required if using 579BF or 579BR Hardeners).

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.



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Substrate Systems

Preparation

Steel – Remove rust, clean and degrease, or blast to Class 2 1/2

Aluminium – Scour with Scotchbrite and degrease

Galv – Clean and degrease

Wood – Sand and dust down

MDF – Sand and dust down

Fibreglass / Epoxy – Sand and degrease

Ferro Cement - Sweepblast

Substrate / Recommended System	DFT (Microns)	Overcoat Time @ 20 Degrees C	Overcoat Preparation
STEEL (Cleaned / Degreased) 1 st coat 178 HS Primer OR 1894 Etch Primer 2 nd coat 579 Caprithane	50-75 20-25 37-50	16 hrs 1-6 hrs 16 hrs plus	Sand 360 N/A Sand 320
STEEL (Blasted) 1 st coat CC22/1 OR 178HS Primer 2 nd coat 579 Caprithane	50-75 50-75 37-50	3 hrs – 1 month 16 hrs	N/A Sand 360
STEEL (Aggressive conditions) 1 st coat 719 Polyetch 2 nd coat CC22/1 OR 178HS Primer 3 rd coat 579 Caprithane	7-10 50-75 50-75 37-50	20' – 8 hours 3 hrs – 1 month 16 hrs	N/A N/A Sand 360
ALUMINIUM / GALV (2 coat system) 1 st coat 719 Polyetch 2 nd coat 579 Caprithane	7-10 37-50	20' – 8 hours	N/A
ALUMINIUM / GALV (3 coat system) 1 st coat 719 Polyetch 2 nd coat CC22/1 OR 178HS Primer 3 rd coat 579 Caprithane	7-10 50-75 50-75 37-50	20' – 8 hours 3 hrs – 1 month 16 hrs	N/A N/A Sand 360
MDF/WOOD - Interior(Pigmented finish) 1 st coat 708 Primaboard 2 nd coat 579 Caprithane	30-75 37-50	16-24 hrs	Sand 360
WOOD – INTERIOR (Clear finish) 1 st coat 700 Urethane Sealer 2 nd coat 579 Caprithane Clear	20-30 37-50	16-24 hrs	Sand 360

DFT = Dry Film Thickness

WFT = Wet Film Thickness

MARINE SYSTEMS			
FIBREGLASS / EPOXY (Hull Above Waterline) 1 st coat Amercoat CC22 2 nd coat 178HS Primer 3 rd coat 579 Caprithane	120-180 / 50-75 90-135 / 50-75 90-120 / 37-50	3 hrs – 1 month 16 hrs	N/A Sand 360
FIBREGLASS / EPOXY (Topsides/Decks) 1 st coat Amerlock 2 2 nd coat 178HS Primer 3 rd coat 579 Caprithane	150-180 / 125-150 90-135 / 50-75 90-120 / 37-50	3 hrs – 1 week 16 hrs	N/A Sand 360
STEEL (Hull Above Waterline) 1 st coat Amerlock 2 2 nd coat 178HS Primer 3 rd coat 579 Caprithane	150-180 / 125-150 90-135 / 50-75 90-120 / 37-50	3 hrs – 1 week 16 hrs	N/A Sand 360
STEEL (Topsides/Decks) 1 st coat Amerlock 2 2 nd coat 178HS Primer 3 rd coat 579 Caprithane	150-180 / 125-150 90-135 / 50-75 90-120 / 37-50	3 hrs – 1 week 16 hrs	N/A Sand 360
FERRO CEMENT (Hull Above Waterline) 1 st coat Amerlock Sealer 2 nd coat Amerlock 2 3 rd coat 178HS Primer 4 th coat 579 Caprithane	38 / 38 150-180 / 125-150 90-135 / 50-75 90-120 / 37-50	24 hrs – 1 month 3 hrs – 1 week 16 hrs	N/A N/A Sand 360
FERRO CEMENT (Topsides Decks) 1 st coat Amerlock Sealer 2 nd coat Amerlock 2 3 rd coat 178HS Primer 4 th coat 579 Caprithane	38 / 38 150-180 / 125-150 90-135 / 50-75 90-120 / 37-50	24 hrs – 1 month 3 hrs – 1 week 16 hrs	N/A N/A Sand 360
TIMBER (Hull Above Waterline) 1 st coat CC22 2 nd coat 178HS Primer 3 rd coat 579 Caprithane	120-180 / 50-75 90-135 / 50-75 90-120 / 37-50	3 hrs – 1 month 16 hrs	N/A Sand 360
TIMBER (Topsides/Decks) 1 st coat Amerlock 2 2 nd coat 178HS Primer 3 rd coat 579 Caprithane	150-180 / 125-150 90-135 / 50-75 90-120 / 37-50	3 hrs – 1 week 16 hrs	N/A Sand 360
ALUMINIUM (Hull Above Waterline) 1 st coat 719 Polyetch 2 nd coat Amerlock 2 3 rd coat 178HS Primer 4 th coat 579 Caprithane	70-100 / 7-10 150-180 / 125-150 90-135 / 50-75 90-120 / 37-50	20' – 8 hrs 3hrs – 1 week 16 hrs	N/A N/A Sand 360
ALUMINIUM (Topsides/Decks) 1 st coat 719 Polyetch 2 nd coat Amerlock 2 3 rd coat 178HS Primer 4 th coat 579 Caprithane	70-100 / 7-10 150-180 / 125-150 90-135 / 50-75 90-120 / 37-50	20' – 8 hrs 3 hrs – 1 week 16 hrs	N/A N/A Sand 360

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