579 CAPRITHANE

JANUARY 2020

2K Acrylic Urethane

Product Data

Caprithane is a two pack acrylic polyurethane for spraying application, 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 on metal and timber substrates where a durable, tough, chemical resistant finish is required – trucks, machinery, kitchen joinery 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

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.

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 and clear finishes – 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 or sealed.

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

Mixing Ratio

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

Pot Life

8 hrs (579B), 2 hrs (579BF), 3 hrs, below 15C (579BR)

Theoretical Coverage

Approximately 10.5 sq. m/litre @ 40µm DFT (catalysed with 579B)

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

VOC Declaration

Volatile Organic Compounds based on the catalysed shade:

12000 (CLEAR) – 540 grams per litre

20000 (WHITE) – 480 grams per litre

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 579 finish – Sand 400-600 grit 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) 10' (579BF)

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

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 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.

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.

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

Substrate / Recommended System	DFT (Microns)	Overcoat Time @ 20 Degrees C	Overcoat Preparation
STEEL (Cleaned / Degreased)			
1st coat 178 HS Primer	50-75	16 hrs	Sand 360
	20-25	1-6 hrs	N/A
2nd coat 579 Caprithane		16 hrs plus	Sand 320
	37-50		
STEEL (Blasted)			
1st coat Amercoat 488	50-75	3 hrs – 1 month	N/A
OR 178HS Primer	50-75	16 hrs	Sand 360
2nd coat 579 Caprithane	37-50		
STEEL (Aggressive conditions)			
1st coat 719 Polyetch	7-10	20' – 8 hours	N/A
2nd coat Amercoat 488	50-75	3 hrs – 1 month	N/A
OR 178HS Primer	50-75	16 hrs	Sand 360
2nd coat 579 Caprithane	37-50		
ALUMINIUM / GALV (2 coat system)			
1st coat 719 Polyetch	7-10	20' – 8 hours	N/A
2nd coat 579 Caprithane	37-50		
ALUMINIUM / GALV (3 coat system)			
1st coat 719 Polyetch	7-10	20' – 8 hours	N/A
2nd coat Amercoat 488	50-75	3 hrs – 1 month	N/A
OR 178HS Primer	50-75	16 hrs	Sand 360
2nd coat 579 Caprithane	37-50		
MDF/WOOD – Interior (Clear finish)			
1st coat 495 Amerbuild	25-35	16-24 hrs	Sand 360
OR 685 2K Sealer	25-35		
2nd coat 579 Caprithane	37-50		
MDF/WOOD – Interior (Pigmented finish)			
1st coat Amerprime 570P	30-75	16-24 hrs	Sand 360
2nd coat 579 Caprithane	37-50		

DFT = Dry Film Thickness

WFT = Wet Film Thickness

MARINE SYSTEMS			
FIBREGLASS / EPOXY (Hull Above Waterline)			
1st coat Amercoat 488	120-180 / 50-75	3 hrs – 1 month	N/A
2nd coat 178HS Primer	90-135 / 50-75	16 hrs	Sand 360
3rd coat 579 Caprithane	90-120 / 37-50		
FIBREGLASS / EPOXY (Topsides/Decks)			
1st coat Amerlock 2	150-180 / 125-150	3 hrs – 1 week	N/A
2nd coat 178HS Primer	90-135 / 50-75	16 hrs	Sand 360
3rd coat 579 Caprithane	90-120 / 37-50		
STEEL (Hull Above Waterline)			
1st coat Amerlock 2	150-180 / 125-150	3 hrs – 1 week	N/A
2nd coat 178HS Primer	90-135 / 50-75	16 hrs	Sand 360
3rd coat 579 Caprithane	90-120 / 37-50		
STEEL (Topsides/Decks)			
1st coat Amerlock 2	150-180 / 125-150	3 hrs – 1 week	N/A
2nd coat 178HS Primer	90-135 / 50-75	16 hrs	Sand 360
3rd coat 579 Caprithane	90-120 / 37-50		
TIMBER (Hull Above Waterline)			
1st coat Amercoat 488	120-180 / 50-75	3 hrs – 1 month	N/A
2nd coat 178HS Primer	90-135 / 50-75	16 hrs	Sand 360
3rd coat 579 Caprithane	90-120 / 37-50		
TIMBER (Topsides/Decks)			
1st coat Amerlock 2	150-180 / 125-150	3 hrs – 1 week	N/A
2nd coat 178HS Primer	90-135 / 50-75	16 hrs	Sand 360
3rd coat 579 Caprithane	90-120 / 37-50		
ALUMINIUM (Hull Above Waterline)			
1st coat 719 Polyetch	70-100 / 7-10	20' – 8 hrs	N/A
2nd coat Amerlock 2	150-180 / 125-150	3hrs – 1 week	N/A
3rd coat 178HS Primer	90-135 / 50-75	16 hrs	Sand 360
4th coat 579 Caprithane	90-120 / 37-50		
ALUMINIUM (Topsides/Decks)			
1st coat 719 Polyetch	70-100 / 7-10	20' – 8 hrs	N/A
2nd coat Amerlock 2	150-180 / 125-150	3 hrs – 1 week	N/A
3rd coat 178HS Primer	90-135 / 50-75	16 hrs	Sand 360
4th coat 579 Caprithane	90-120 / 37-50		

PPG Industries NZ Ltd • 5 Monahan Road • Mt Wellington • Auckland • Phone 0800-263 766 • Fax 0800-659 377
PPG Industries Australia Ltd • McNaughton Rd • Clayton • VIC 3169 • Phone 1300 305 699 • Fax 1300 304 214