

TECHNICAL DATA SHEET

PRODUCT

UT173 U-FLON 2-PACK MAXIMUM PERFORMANCE FLUOROPOLYMER (PVDF) TOPCOAT

DESCRIPTION

UT173 U-Flon 2 component Fluoropolymer PVDF coating is specially designed to protect the appearance of external hard wearing surfaces for the maximum length of time, typically for a period of 15 - 20 years with a maintenance program. UT173 conforms to AAMA 2605 Standard for superior coating performance.

Its principal application areas are for the decoration and protection of architectural fascias, railway fixtures, buses and bus depots, aircraft and aviation terminals, public utilities, park fixtures.

Rest room partitions are enhanced by graffiti resistant properties.

PROPERTIES

COLOUR

White & Clear. Colours available on request.

GLOSS LEVEL

Satin. Other levels on request

WEATHERING

Excellent.

CHEMICAL RESISTANCE

Excellent.

SOLVENT RESISTANCE

Excellent.

ABRASION RESISTANCE

Very good.

TEMPERATURE RANGE

Up to 200 °C (dry).

TECHNICAL DATA

RECOMMENDED FILM

BUILD

Flat Panels	100 µM (wet)	50 µM (dry)
Profiles	70 µM (wet)	30 µM (dry)

VOLUME SOLIDS

50 %

THEORETICAL COVERAGE

Approximately 10 metres² per litre at 100 microns wet.

COMPONENTS

Two.

MIXING RATIO

4A : 1B by volume

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DRYING AT 25 °C	Touch dry: 2 hrs	Handleable: 8 hrs
	Recoat: 8 hrs	Full cure: 7 - 10 days
POT LIFE AT 25 °C	4hrs.	
APPLICATION METHODS	Air atomised or airless spray.	
FLASHPOINT	30 °C	
SHELF LIFE	12 months (min)	
PACKAGING	Part A	1 litre, 4 litres, 20 litres.
	Part B	1 litre, 5 litres

SYSTEM RECOMMENDATIONS

SUBSTRATE	PREPARATION	COATING SEQUENCE	FILM BUILD WET (DRY)
STEEL	Abrasive blast Clean AS1627.4 Class 2.5 (min)	1 st coat : BC300 2-Pack Metal Etch Primer. 2 nd coat : EP210 2-Pack Epoxy Anti-Corrosive Primer. Finish Coat : UT173 series U-Flon	40 - 50 (10 - 15) microns 150 (75) microns 100 (50) microns
GALVANIZED STEEL	Degrease and wash. Mechanically abrade. New gal. may require acid wash.	1 st coat : EP200 2-Pack Epoxy Primer. Finish Coat : UT173 series U-Flon	80 -100 (30 - 40) microns 100 (50) microns
ALUMINIUM	Degrease thoroughly Abrade if necessary.	Suitable chromate metal pre-treatment (as per manufacturer's directions) OR 1 st coat : BC300 2-Pack Metal Etch Primer. 2 nd coat : EP200 2-Pack Epoxy Primer. Finish Coat : UT173 U-Flon	40 - 50 (10 - 15) microns 80 -100 (30 - 40) microns 100 (50) microns
G.R.P.	Remove mould release agent or degrease.	1 st coat : EP200 2-Pack Epoxy Primer. Finish coat : UT173 U-Flon	80 -100 (30 - 40) microns 100 (50) microns

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SURFACE PREPARATION

STEEL

Remove any grease or oil using suitable solvent or water based degreaser. Acid or alkali presence should be neutralised with appropriate products followed by thorough rinsing with clean water. Any other foreign matter eg. rust, mill scale etc., should be abrasively blast cleaned to Australian standard AS1627.4 Class 2.5 for ambient conditions or Class 3 for immersion conditions.

GALVANISED STEEL OR ALUMINIUM

Remove any grease or oil using suitable solvent or water based degreasers. (See AS16271.1). Mechanical abrasion and dust off should follow.

APPLICATION

MIXING

Stir each of the components until homogenous. Mix all base and hardener components until fully blended. Allow induction time of 5 minutes prior to commencing application. For smaller quantities mix **4** parts of base to **1** part hardener by volume.

THINNING

Use recommended thinner only, up to a maximum of 25 % by volume depending on method of application employed. Coating should be applied with as little added thinner as is practicable to maximize final film

SPRAYING

Conventional pressure pot: 1.5 mm Fluid orifice using 385 kpa (50 psi).
Pressure at pot: 65 kpa (10 psi)

Pressure at Gun: 385 kpa (50 psi)

AIRLESS

Standard airless equipment using 28:1 pump ratio and fluid tip range 475-525 microns (.019-.021 inches) and supply air at 520-650 kpa (80-100 p.s.i). Thin only as necessary with UT173 U-Flon Thinner.

EQUIPMENT CLEANUP

All equipment should be thoroughly cleaned with UT173 U-Flon Thinner or BC Coatings Gun Wash.

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GENERAL

Freshly mixed material must **NOT** be added to material which has been in use for some time.

Rate of cure is dependent upon temperature.

Do **NOT** apply this product at ambient temperatures below 15 °C or greater than 40 °C or at relative humidities less than 25 % or above 85 %.

Ensure maximum recoat interval is not exceeded otherwise surface must be lightly abraded and then dusted to ensure maximum inter-coat adhesion.

Shelf life is normally 12 months but depends on storage conditions.

This data sheet is based on information in BC Coatings possession at date of issue.
BC Coatings supplies its products only on condition that the consumer is satisfied as to the performance of the product in meeting his particular requirements.