

MANOR

PRODUCT DATA SHEET

1 PACK POLYURETHANE Q.D.



INTENDED USE

VEHICLE REFINISH and the ORIGINAL COATING of VEHICLES or TRAILERS

A high performance fast drying high gloss durable finish for commercial transport. Typically dries with a tack free time of 2-3 hours, and can be taped up, using low tack tape within 6 to 8 hours for 'same day two-tone work'.

VOC classification is 2004/42/IB(d)(420)(420). Do not add thinners.

METAL FINISHING - particularly Agricultural and Construction Equipment (ACE).

Widely used in the Agricultural and Construction Equipment sectors, where it is usually applied by air assisted airless spray. It is only occasionally used in the general METAL FINISHING sector instead of Fast Enamel or QD Enamel when an 'exhibition finish' is required or if there is a need for more resistance to cutting oils and mild chemicals.

See also the Manor supplementary information sheet 'Guide to the UK VOC legislation' to understand how the VOC content of a coating determines its suitability for use in any application.

Surfaces must be dry, sound and free from dirt, dust, oil and grease.

SUITABLE SUBSTRATES AND PREPARATION

Prime / Undercoat with Manor UPF for conventional spray and Manor Agriprime CT for airless and air assisted spray. (see data sheets on these products)

Previously painted glossy surfaces should be lightly abraded prior to application of the primer / undercoat to gain adhesion.

Aluminium and galvanised steel should first be pre-treated with Manor Mordant Solution , Manor Chromate Free Wash Primer or Manor 1 Pack Etch Primer CT

Other substrates; seek advice from Technical Department at Manor Coating Systems

AVAILABILITY

5 and 20 litres available in extensive range of RAL, BS and other colours from the MANORMIX scheme.

PRODUCT INFORMATION

Composition	Based on a polyurethane modified medium oil alkyd resin and pigments selected for their light fastness and exterior durability.
Volume Solids	49%
Weight Solids	54-65%
VOC content	420 gm/litre
Supply Viscosity	40 microns dry at 80 microns wet
Typical film thickness	
Theoretical coverage	12.5 sq. metres/litre at 40 microns dry film thickness.

**APPLICATION
DETAILS**

Dry heat resistance 80C
Flash Point HIGH FLASH in the range 32-55C (flammable)
 PREFERABLY BRING PAINT TO 15-25C AND STIR WELL BEFORE USE

Airless spray: **cold** Ready for use for vehicle chassis.
 For METAL FINISHING or ACE up to 5% thinners may be added to suit
 equipment. For ACE, hot airless is often used.
 Typical tip size 11-13 thou. or 0.27-0.33 mm
 Typical fluid pressure 140 kg/sq metre or 2000 p.s.i.
 heated As for cold airless, maximum temperature of 70 C

Conventional spray Add no thinners for vehicle refinish use. A pressure pot or hot spray at
 up to 70 C may be used.

Brush Roller Only small areas.

Thinner Synthetic Thinner CV

Film thickness per coat

	<u>Dry</u>	<u>Wet</u>
Minimum	30 microns	60 microns
Maximum	50 microns	100 microns

**DRYING AND
RECOATING**

Approximate drying times at 40 microns d.f.t.

<u>Substrate temperature</u>	<u>Touch Dry</u>	<u>Overcoating times</u>	
		Minimum	Maximum
10C	4-6 hours	16 hours	3 days (see note)
20C	2-3 hours	6 hours	3 days (see note)

**Environmental
conditions**

The air temperature should be at least 5C with a surface temperature 3C
 above the dew point and the relative humidity below 90%. The drying times
 will be significantly extended in cold, damp conditions.

**Overcoating /
repainting**

Usually applied wet on wet.
 If left for more than 3 days between coats, it is important to lightly abrade
 the coating to ensure good intercoat adhesion. To repair runs and sags
 allow the first coat to dry such that the film can be lightly abraded to
 remove the defect, then leave the flatted surface to "heal up" overnight
 before re-coating.

SHELF LIFE

Store in cool, dry conditions, typically 5-25C. After a period of storage the product should be
 thoroughly stirred. Usable life is 2 years from date of manufacture in unopened containers.

**SAFETY
PRECAUTIONS**

Refer to Manor Safety Data Sheet

LIMITATIONS

The information given in this data sheet is based on experience and is accurate to the best of our knowledge. No guarantee should be implied however, since the conditions of use are beyond our control. This data sheet does not constitute a specification.

A Painting Guide can be accessed via our website which provides additional information on paint and painting and definitions of terminology.

In case of doubt as to the suitability of the product please consult our Technical Department. If you are advised that the paint can be used in a manner not specified on this datasheet our Technical Department will confirm this to you in writing. Do not use paint prior to receiving this confirmation.

References to other primers, topcoats, cleaners and thinners are to the Manor Product of that name only.

This data sheet supercedes all previous issues.

REFERENCES

Amended: 25/01/2022

Reference: P1 Version: 8.0