*B ROURKE "**VINYLAST**"*
PRODUCT DATA SHEET

INTENDED USE

A rapid drying, non-convertible coating for application to ferrous and non-ferrous, decorative and structural metalwork where a high level of corrosion resistance is required. It may also be used as a one-coat primer/finish directly to most adequately prepared metals, and in particular exhibits good adhesion to well - prepared galvanised steel (see Suitable Substrates and Preparation).

CHARACTERISTICS

- Quick drying by solvent evaporation gives tack free time of 20 minutes.
- Ideally suited to conventional and airless spray application
- Non-sag properties allow good film build to 125 microns d.f.t..
- For exterior exposure, apply a minimum dry film thickness of 75 microns, but for marine and coastal environments apply 125 microns.
- Can be applied down to 5^{o}C.
- Tough, flexible film, resistant to many aqueous chemicals.
- Excellent adhesion to hot dip galvanised ironwork, and aluminium.
- Reduces maintenance costs compared with conventional paint – re-painting intervals can be doubled, and only one coat is needed for re-painting.
- Full BS, RAL and NCS colour range available.

SUITABLE SUBSTRATES AND PREPARATION

Surfaces must be dry, sound and free from dirt, dust, rust and grease. Steel surfaces should be preferably blast cleaned to ISO 8501 part A1 Sa 2½ or wire brushed to BS7079 Part A1 ST2. Galvanised steel should be free of White rust (zinc corrosion deposits) and if previously weathered should be washed with copious quantities of water to remove soluble salts. Galvanised steel that has been oiled should be thoroughly cleaned to remove all traces of oil prior to coating. Heavily chromated galvanised steel should be alkali cleaned to remove the chromate passivation. Bright spangled galvanised steel will require pre-treatment with Rourke's Wash Primer, a Mordant solution or abrading thoroughly using P600 wet or dry abrasive paper before application of Vinylast.

AVAILABILITY

A low satin finish, available in standard colours from stock in 1ltr, 2.5ltr, 5ltr and 20ltr containers. Most BS, RAL and NCS colours in 1litre to 20 litre containers are available to order.

PRODUCT INFORMATION (TYPICAL FIGURES)

Composition	Based on a modified vinyl resin, pigmented with suitably selected pigments, and zinc phosphate anticorrosive pigment.
Volume Solids	37% for matt black
VOC content	585 gm/litre.
Supply viscosity	5 poise at 20^{o}C
Typical film thickness	200 microns wet and 75 microns dry.
Coverage	Theoretical coverage is 4.5 sq. metres/litre at 200 microns wet film thickness. The spreading rate of this product will vary considerably depending on the method of application and the roughness and porosity of the surface. In practice, this figure may be reduced by up to 40%.
Dry heat resistance	60^{o}C
Specific Gravity	1.2
Flash Point	Within the range 21 – 31^{o}C

APPLICATION DETAILS

PREFERABLY BRING PAINT TO 15-20°C. STIR WELL BEFORE USE.

Airless spray (cold) Up to 5% thinners may be added to suit equipment.
Typical tip size 13-19 thou.
Typical fluid pressure 200 kg/sq. metre or 2800 p.s.i.

Conventional spray Up to 15 % Thinners may be added to suit equipment but a lower film thickness will be achieved.

Brush/Roller Apply evenly using a well-loaded brush. Do not attempt to brush out or lay off.

Thinner Fast Flash Thinner is recommended for spraying and cleaning.

Film thickness per coat

	Dry	Wet
Minimum	25 microns	80 microns
Maximum	75 microns	240 microns

DRYING AND RECOATING

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

Substrate temperature	Touch dry	Dry to handle	Overcoating times	
			Minimum	**Maximum**
10°C	45 mins	2 hours	2 hours	
20°C	20 mins	1 hour	1 hour	Indefinite

Environmental Conditions The air temperature should be at least 5°C with a surface temperature 3°C above dew point and the relative humidity below 90%, thus ensuring that the surface is dry and that condensation will not occur during application or drying. The drying times will be significantly extended in cold, damp conditions.

Overcoating/Repainting For inland exterior environments a minimum dry film thickness of 75 microns must be achieved.
For coastal/marine environments a minimum of 125 microns is recommended.

SHELF LIFE

After a period of storage the product should be thoroughly stirred. Usable life 1 year from date of manufacture in unopened containers, protected from heat.

SAFETY PRECAUTIONS

REFER TO THE MATERIAL SAFETY DATA SHEET

SUPPLEMENTARY PRODUCT INFORMATION

REPAIRS RECTIFICATION AND MAINTENANCE OF THE COATING

Vinylast coatings are very easy to repair and maintain.
The risk of Intercoat adhesion is minimal compared to a two pack or alkyd coatings. The process should be;

1. Thoroughly clean the surface and lightly abrade
2. If any areas of bare metal are showing, remove all trace of corrosion and spot prime with two generous coats of Vinylast to a minimum of 50 microns d.f.t
3. Allow to dry overnight and flat back the edges of the repair to give a smooth finish.
4. Apply one coat to a minimum of 25 microns d.f.t. to the entire painted area (or further coats if specified)

CAN I USE A PRIMER?

Vinylast is a self priming topcoat for all typical uses and exhibits a level of adhesion and durability far superior to conventional alkyd primers

DO NOT USE PRIMERS UNDER VINYLAST unless specifically advised by our Technical Department. Examples may be:

1. **Non ferrous metals**…….. ……Rourke's Wash Primer
2. **For extreme corrosion resistance**……Rourke's 2 Pack Epoxy Zinc Phosphate Prime on ferrous metals

APPLICATION TIPS BY BRUSH/ROLLER

Application Because the product is fast drying the solvent evaporates very quickly and there is no wet-edge, so lay the paint on generously

and leave if to "flow out"

Typical film thickness

One generous coat achieves a maximum w.f.t. of 75 microns equal to 25 microns d.f.t

Recoating Because the product is "non convertible" (i.e. re-dissolves in its own solvent) it will "pick up under the brush" when a second coat is applied. Leave for 24 hours between coats to minimise the effect.

APPLICATION TIPS WHEN SPRAYING

Electrostatic Ready for use with most equipment. Gives excellent wrap under most circumstances. If required us Rourke's Industrial Thinners.

Airless Spray Gives excellent sag resistance enabling 250 microns w.f.t.(75 microns d.f.t) be applied in one application.

END USE RESTRICTIONS

DO NOT apply to handrails…a 2 pack system is recommended

DO NOT apply to surfaces exposed to oil, petrol, splashes etc. The dry film readily dissolves.

DO NOT apply to surfaces subjected to temperatures above 60 °C

DO NOT apply to fabrications where early hardness development/resistance to pressure marking is required. The coating remains flexible and softer than conventional paint for 7-14 days dependent on film thickness. Not suitable for end uses, which require heavy goods to be placed or stacked upon it,

or, where early transportation of heavy I items is required.

DO NOT apply to newly galvanised surfaces. These surfaces have micro air pockets within the zinc coating and should be left for 3-5 days to stabilise, prior to painting.

ALWAYS Apply sufficient film thickness to protect the surface being painted.

IS IT AVAILABLE IN A GLOSS FINISH

Rourke's Vinygloss is based on the same advanced resin technology and may be applied as a glossy top coat using Rourke's Vinylast as a primer undercoat

SPECIAL END USES

Chemical resistance – Good, resists most dilute acids, alkalis and chemicals.

Low temperature use - Dries well at low temperatures down to 0°C**.** When dry can be used on fabrications down to -20°C and more. Seek technical advice.

Tough Coatings - Resistant to knocks and impacts which would lead to flexible chipping and flaking of alkyd type coatings

Special black lead effect - with the MIO Graphite Grey version

---

SALES OPPORTUNITIES

Sign Industry - One coat reduced sheen finish, which adheres directly Foamex, abraded aluminium, galvanised and mild steel

Street Furniture - Adheres to a wide variety of substances, cast aluminium, zinc coated steel, mild steel etc.

Externally coated Plastic cladding - New factory units etc.