

BRUNDLE COATINGS

ADVICE SHEET 2

Rourke's VINYLAST™ and other Brundle Coatings

Exclusively available from F H Brundle

COVERAGE INFORMATION

Introduction

One question we are often asked is, *"How much paint will I need to paint (x) metres of railings?"*

There isn't an easy answer because so many different factors come into play. Many paint manufacturers will offer a *'theoretical coverage'* as a guide; however practical coverage is usually only a percentage of this figure. In our case we are offering advice to people who will be usually be painting ironwork. Even so, the work you are painting may vary considerably from one project to the next. It could be a simple hooped bar railing or it could be a very heavy, highly decorative pair of gates, with heavy duty posts. The latter will obviously use far more paint per metre than the simple hooped railings. Painting RSJs with a brush would be much closer to the theoretical coverage. There are many other factors which affect coverage so we will attempt to provide you with some information which may be useful.



We suggest that you record how much paint you have used to paint a particular job. You can then work out how many square metres you have painted and this will give you a litres per square metre figure. If you do this with a few of your jobs you will soon get a good idea of how much paint you are using for each style of work that you do and how much you need to order and allow for when you are preparing a quote.

Rourke's VINYLAST™

Theoretical coverage

For Vinylast™, the theoretical coverage is 4 sq. metres/litre at 235µ (microns) wet film thickness. The spreading rate of this product may vary considerably depending upon the method of application and the roughness and porosity of the surface. In practice, this figure may be reduced by up to 40%. Theoretical coverage is obtained by applying the paint onto a flat surface in ideal conditions. With a skilled operative the paint should cover one side of a 4 sq. metre surface to the given thickness.

Practical coverage

In practice, painting ironwork is different. There are spaces between the bars and the ironwork needs painting on all sides and not just on one flat surface. Plain work will need less paint than very decorative work. Conditions, methods of application and equipment will all affect the theoretical coverage. The figures given below are what have been found, from experience, when painting typical ironwork. These figures are intended as a helpful **GUIDE ONLY** and we cannot accept responsibility for any variations you may find.

The following figures were obtained by a skilled sprayer, in a spray booth, and gave a dry film thickness (d.f.t.) of approximately 40 microns d.f.t. Please remember that:

- More than one coat is often necessary to achieve the minimum recommended d.f.t. of 80 microns
- In coastal areas we would recommend 120 microns d.f.t. and some customers would require it.
- Some local authorities will ask for 120 microns d.f.t.
- To achieve 120 microns d.f.t. you probably need to apply more than 2 coats. This depends upon your equipment and the skill level of the operator and how much thinners have been used.
- We recommend using a contrasting colour (such as dark grey under black) for the first coat to make it easier to see what you have already painted and to ensure that the whole of the work is covered with the following coat. This also has the advantage of always being able to use up any paint of a different colour left over from a previous job.
- Check the film thickness of the paint with a film thickness gauge. Details can be found below.
- The symbol for microns is µ.

The figures below are an approximate guide for painting BOTH sides of the ironwork with Vinylast™:

BRUSH:	250ml per square metre per 40 microns (µm) d.f.t. coat
CONVENTIONAL SPRAY:	Using a 1.8mm nozzle on a gravity feed gun, 750ml of Vinylast™ was used per sq. metre at per 40 micron d.f.t.
ELECTROSTATIC SPRAY:	With electrostatic equipment, 430ml of Vinylast™ was used per sq. metre, per 40 micron d.f.t. coat.
ROLLER:	We have no figures available at present, but would expect a similar figure to brushing.
THINNERS:	For best results use our Brundle No. 1 Industrial Thinner. Product Code: 29002 (5L)
AEROSOLS:	Although Aerosols are mainly used for touching up on site, or painting small items, the theoretical coverage is 2.32 sq. metres at 10 microns d.f.t.

CONVERT WET AND DRY FILM THICKNESS:

Should you need to convert wet and dry film thickness you can do this with the following formulae. You need to know the percentage of solids in the paint.

WFT = Wet film thickness = 'W'
DFT = Dry film thickness = 'D'
Percentage of solids in the paint = 'P' (By volume)
Percentage of Added Thinners = 'T' (By volume)

No Added Thinners

$$W = \frac{D}{P} \qquad D = W \times P \qquad P = \frac{D}{W}$$

With Added Thinners

$$W = \frac{\frac{D}{P}}{(1 + T)} \qquad D = W \times P \times (1 + T) \qquad P = \frac{D}{W} \times \frac{1}{(1 + T)}$$

To obtain a dry film thickness of 81 microns using Vinylast™ it will require a total of approx. 300 microns dry film thickness.

Other Brundle Paint Products

The theoretical coverage rates for our other paints are as follows:

- | | | |
|------------------------------|----------------------------|---|
| • Rourke's Enamelrite | 10.7m ² | per litre at 30 microns dry film thickness (d.f.t.) |
| • Brundle Brushable Enamel | 10.7m ² | per litre at 30 microns dry film thickness (d.f.t.) |
| • Brundle Value Vinyl | 5.3m ² | per litre at 75 microns d.f.t. |
| • Brundle Anti-climb Coating | Approx. 2m ² | per litre |
| • Primers, typically | Approx. 18.7m ² | per litre at 30 microns d.f.t. |

In practice these figures may well be reduced depending on equipment and application.

PLEASE NOTE

This information is intended to be a helpful guide based on experience. No guarantee can be given that these amounts will be the exact quantities for your own particular job. Ironwork can vary tremendously from one job to the next. As we have no control over application, film thickness, the skill of the operator, the equipment used, local conditions, basic materials or the particular situation, it is therefore impossible to offer any specific guarantees. **The only way to be certain of the amount which you will need is to try a sample on the work which you are painting, using your own equipment and calculate from that the amount of paint you will need.** F. H. Brundle can accept no responsibility for incorrect amounts ordered.

Drying times may vary according to temperature and humidity. Always handle newly painted products with care. Some coatings may take a considerable time to become fully cured.

We strongly recommend the use of film thickness gauges* to ensure consistent coating thickness and help you avoid applying either too much or too little paint.

*Inexpensive plastic wet film thickness combs are available from F H Brundle. Product Code: 29PTG01

*Digital electronic film thickness gauges are available at ELCOMETER www.elcometer.co.uk (Tel: 0161 371 6000 or e-mail: sales@elcometer.com.)



Wet film thickness combs

IMPORTANT:

Correct Health and Safety procedures must be followed at all times. Basic information is available on the cans, but we strongly recommend all users to read the full data sheets for each product.

H & S Safety Data Sheets are available to view or download online at www.fhbrundle.co.uk by searching for the Product Code and clicking on the SDS icon found with the product, or ask at any of our branches, either in person or by telephone. You may also call 01282 834545 (Mon-Fri 08:30-16:30) and we will be pleased to post or e-mail a copy to you.

N.B. Please note that the solvents used in Vinylast™ may react with items like some electrical cables or bubble wrap and we always recommend testing samples when used next to other rubber or plastic materials. If Vinylast™ is to be used on light fittings and may come into contact with cables, a barrier of clear varnish **MUST** be used.

Finally...

We hope this guide has been helpful. As we always try our best to provide a friendly and helpful service if you have any further questions please do not hesitate to contact any member of staff who will be pleased to help. If information **isn't available to hand then we will do our best to find it for you.**

If you require any special advice about a project which you have to paint please do not hesitate to ask us. We can arrange for a specialist technician to contact you if necessary.

Please visit www.fhbrundle.co.uk for a full range of products and our online order service. You will find a list of all our branches and their contact numbers on our website. You can also e-mail sales@brundle.com for prompt attention.

Brundle Design Studio

F H Brundle has also produced a web app to assist our customers. It can help convert enquiries into sales by enabling you to design ironwork with, or for, your customers. Our **FREE Brundle Design Studio** can be found on our main website at www.fhbrundle.co.uk where you can register.

Brundle Design Studio also contains useful **Calculators** to help with estimating and designing your work, and a shared **Design Library**. You can find Design Studio at www.designstudio.fhbrundle.co.uk.

Examples of ironwork using our coating products



Whilst every effort has been made to ensure the accuracy of the information supplied, F.H.Brundle cannot be held responsible for any errors or omissions. This product must only be employed for its original intended use. Any other use is wrong and potentially dangerous. Installation must be carried out in full compliance with current regulations. F.H.Brundle cannot be held liable for any damages resulting from wrongful, erroneous or negligent use.

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