

ENVIROGARD M770

PRODUCT TECHNICAL DATA

FULL DESCRIPTION	: ENVIROGARD M770 WATER BASED FINISH			
MATERIAL TYPE	: Water based quick drying gloss finish or sealercoat for the entire FX product range.			
RECOMMENDED USE	: As a finish for use in areas where solvent emissions are not desirable. : Also used as an essential decorative sealercoat for the FX product range to provide resistance to moisture.			
ENDORSEMENTS	: BS476 Part 7 Surface Spread of Flame Material - for details of substrate/scheme, consult Leighs Customer Service Department.			
RECOMMENDED APPLICATION METHODS	: Airless Spray : Conventional Spray : Brush : Roller			
COLOUR AVAILABILITY	: Limited range of shades.			
% SOLIDS BY VOLUME	: 39 ± 2% (ASTM-D2697-91)			
V.O.C.	: 71 gms/litre calculated from formulation to satisfy EC Directive 2004/42/CE (Max limit 140gms/litre) : 129 gms/kilo content by weight from formulation, to satisfy EC SED calculation			
TYPICAL THICKNESS FOR FIRETEX SEALERCOAT APPLICATIONS	Dry film thickness : 35 microns	Wet film thickness : 90 microns	Theoretical coverage 11.1 m ² /ltr*	
	* This figure makes no allowance for surface profile, uneven application, overspray or losses in containers and equipment. Film thickness will vary depending on actual use and specification.			
PRACTICAL APPLICATION RATES- microns per coat		Airless Spray	Conventional Spray	Brush
	Dry	35*	35	35
	Wet	90	90	90
				Roller
				25
				65
	* Maximum sag tolerance typically 100µm dry by airless spray. The conventional spray details relate to the paint after 10% thinning with water.			
AVERAGE DRYING TIMES	At 15°C	At 23°C		
To touch	: 30 minutes	: 15 minutes		
To recoat	: 5 hours	: 3 hours		
To handle	: 5 hours	: 3 hours		
	These figures are given as a guide only. Factors such as air movement and humidity must also be considered.			
RECOMMENDED THINNER	: Water			
RECOMMENDED TOPCOATS	: Indefinitely self-overcoatable. : For details of overcoating with other materials, consult Leighs Customer Service Department.			
PACKAGE	: Single component material.			
Pack Size	: 20 litre and 5 litre units.			
Weight	: 1.17 kg/litre (may vary with shade).			
Shelf Life	: 18 months from date of manufacture or 'Use By' date where specified - protect from frost.			

SURFACE PREPARATION:

Ensure surfaces to be coated are clean, dry and free from all surface contamination.

APPLICATION EQUIPMENT:**Airless Spray**

Nozzle Size : 0.38mm (15 thou)
Operating Pressure : 140kg/cm² (2000 psi)

Petrol Unit

Nozzle Size : 0.38mm (15 thou)
Operating Pressure : 105kg/cm² (1500 psi)

The airless spray details given above are intended as a guide only. Details such as fluid hose length and diameter, paint temperature and job shape and size all have an effect on the spray tip size, angle and operating pressure chosen. However, the operating pressure should be the lowest possible consistent with satisfactory atomisation. As conditions will vary from job to job, it is the applicators' responsibility to ensure that the equipment in use has been set up to give the best results. If in doubt Leighs Customer Service Department should be consulted.

Conventional Spray

Nozzle Size : 1.27mm (50 thou)
Atomising Pressure : 3.5kg/cm² (50 psi)
Fluid Pressure : 0.7kg/cm² (10 psi)

The details of atomising pressure, fluid pressure and nozzle size are given as a guide. It may be found that slight variations of pressure will provide optimum atomisation in some circumstances according to the set up in use. Atomising air pressure depends on the air cap in use and the fluid pressure depends on the length of line and direction of feed i.e. horizontal or vertical.

Brush

The material is suitable for brush application.

Roller

The material is suitable for roller application.

APPLICATION CONDITIONS AND OVERCOATING:

In conditions of high relative humidity good ventilation conditions are essential. Substrate temperature should be at least 3°C above the dew point and always above 0°C.

At application temperatures below 10°C, drying times will be significantly extended, and spraying characteristics may be impaired.

At relative humidities in excess of 65% drying times will be significantly extended.

A minimum ambient air temperature of 7°C is required to ensure proper film formation.

Relative humidity should not exceed 80% to ensure proper film formation.

If it is desired to overcoat outside the times stated on the data sheet, please seek advice of Leighs Customer Service Department.

For full notes, see data sheet entitled 'Spreading Rates and Overcoating Times'.

ADDITIONAL NOTES:

In common with other water based materials, drying of this material is retarded by high humidity conditions. Lack of air movement also slows down the process, and under such conditions it is advisable to introduce some method of circulating air over the coated surface to speed up the drying. An air speed of 2 metres per second is recommended.

When used as a sealercoat over the FX product range, a slight reduction in final gloss level will be observed. This does not detract from exposure performance, nor fire resistance properties.

Certain shades, for example reds and yellows, may require additional coats to achieve full opacity.

Numerical values quoted for physical data may vary slightly from batch to batch.

HEALTH AND SAFETY:

Consult Product Health and Safety Data Sheet for information on safe storage, handling and application of this product.

Any person or company using the product without first making further enquiries as to the suitability of the product for the intended purpose does so at their own risk, and Leighs Paints can accept no liability for the performance of the product, or for any loss or damage arising out of such use.

The information detailed in this Data Sheet is liable to modification from time to time in the light of experience and of normal product development, and before using, customers are advised to check with Leighs Paints, quoting the reference number, to ensure that they possess the latest issue.