



Protective & Marine Coatings

SHER-CRYL™ M770 WATER BASED ACRYLIC FINISH

FORMERLY KNOWN AS ENVIROGARD M770

Revised 02/2016 Issue 15

PRODUCT INFORMATION

PRODUCT DESCRIPTION

A 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 Sherwin-Williams.

RECOMMENDED APPLICATION METHODS

Airless Spray
Conventional Spray
Brush
Roller

Recommended Cleanser/Thinner: Water

PRODUCT CHARACTERISTICS

% Solids by Volume: 39 ± 2% (ASTM-D2697-91)

Colour Availability: Limited range of shades

VOC

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 Solvent Emissions Directive calculation

RECOMMENDED THICKNESS

Dry film thickness	Wet film thickness	Theoretical coverage
35 microns	90 microns	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	Roller
Dry	35*	35	35	25
Wet	90	90	90	65

* Maximum sag tolerance typically 256µm wet (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 handle:	5 hours	3 hours
To recoat:	5 hours	3 hours

These figures are given as a guide only. Factors such as air movement and humidity must also be considered.

RECOMMENDED TOPCOATS

Indefinitely self-overcoatable.
For details of overcoating with other materials, consult Sherwin-Williams.

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.



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SURFACE PREPARATION

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

APPLICATION EQUIPMENT

Petrol Unit

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 Sherwin-Williams 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 shall 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 Sherwin-Williams.

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.

WARRANTY

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 Sherwin-Williams 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 Sherwin-Williams, quoting the reference number, to ensure that they possess the latest issue.