



SHER-CRYL™ M770

WATER BASED ACRYLIC FINISH

Revised 07/2023 Issue 18

PRODUCT DESCRIPTION

A 1-pack water based quick drying gloss and sheen finish or sealercoat for the Firetex® 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 Firetex® product range to provide resistance to moisture.

PRODUCT TECHNICAL DATA

Volume Solids:	39 ± 2% (ASTM-D2697-91)
VOC:	71 g/l calculated from formulation, to satisfy EC Solvent Emissions Directive. 129 g/kg calculated from formulation, to satisfy EC Solvent Emissions Directive (UK)
Colours:	Wide range of colours available
Flash Point:	> 101°C
Cleaner/Thinner:	Water
Pack Size:	20 litre and 5 litre units.
Density:	1.274 kg/l (may vary with colours)
Shelf Life:	18 months from date of manufacture, stored in originally sealed containers in a cool and dry environment - protect from frost

Recommended Application Methods:

Airless Spray, Conventional Spray, Brush and Roller

Typical Thickness:

Recommended Spreading Rate Per Coat

	Typical	Maximum Sag (airless Spray)
Dry	35 µm**	70 µm
Wet	90 µm**	175 µm
Theoretical Consumption*	0.09 l/m ² 0.11 kg/m ²	
Theoretical Coverage*	11.1 m ² /l 8.71 m ² /kg	

*This figure makes no allowance for surface profile, uneven application, overspray or losses in containers and equipment.

**Typical for airless and conventional spray. The conventional spray details relate to the paint after 10% thinning with water.

For application by roller the typical thickness is 65µm (wet) 25µm (dry)
For application by brush the typical thickness is 90µm (wet) 35µm (dry)

Film thickness will vary depending on actual use and specification.
Please consult your Sherwin-Williams representative

AVERAGE DRYING TIMES

For 35 µm Dry Film Thickness:

	+ 15°C	+ 23°C
Dry to handle (Drying Stage 6*)	1 hour 30 Minutes	1 hour
To Recoat	5 hours	3 hours

*ISO 9117

These figures are given as a guide only with the optimum airflow. Factors such as air movement, film thickness and humidity must also be considered.

APPROVALS & ENDORSEMENTS

BS476 Part 7 Surface Spread of Flame Material - for details of substrate/scheme, consult Sherwin-Williams.

SURFACE PREPARATION

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

APPLICATION CONDITIONS

In conditions of high relative humidity good ventilation conditions are essential. The surface must be dry and free from ice.

Substrate temperature shall be above 5°C and at least 3°C above the dew point.

Material temperature shall be above 15°C.

Relative air humidity shall be below 80 %.

Ambient air temperature shall be of minimum 7°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.



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APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for satisfactory application characteristics. Always purge spray equipment before use with listed cleaner. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Airless Spray

Unit	Efficient airless equipment
Nozzle Size	0.38 mm (0.015 inch)
Operating Pressure min.	103 bar (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

Atomising Pressure	3.4 bar (50 psi)
Nozzle Size	1.27 mm (0.05 inch)
Fluid Pressure	0.7 bar (10 psi)

Brush and Roller

The coating is suitable for brush and roller application. Application of more than one coat may be necessary to give equivalent dry film thickness to a single spray applied coat.

RECOMMENDED SYSTEMS

Indefinitely self-overcoatable.

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

ADDITIONAL NOTES

Drying times should be considered as a guide only.

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

If it is desired to overcoat outside the times stated on the data sheet, please seek advice of Sherwin-Williams.

HEALTH & SAFETY

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

WARRANTY

Whilst all statements made about our products (whether in this data sheet or otherwise) are correct and accurate to the best of our knowledge, we have no control over the quality or the condition of the substrate, the application conditions or the many other factors affecting your use and application of our product.

The appropriateness of the product under the actual conditions of application or intended use must be determined exclusively by you. The content of this document, and of any oral or written statements already made or to be made in relation to the subject matter of this document, including any suggestions as to appropriate products and any proposed application methods, technical details and other product information represent only test results or experience obtained under controlled or defined circumstances, and is therefore provided for general information purposes only.

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