

MAGNALUX™ 43VC VINYL ESTER/ACRYLIC WAX VEIL COAT

Revised 04/2025 Issue 3

PRODUCT DESCRIPTION

A resin-rich cold cured vinyl ester acrylic copolymer containing wax additives.

Protective & Marine Coatings

PRODUCT DATA SHEET

RECOMMENDED USE

As a veil / topcoat in aggressive environments, which would attack the glass pigmentation in Magnalux glass flake products.

PRODUCT TECHNICAL DATA AVERAGE DRYING TIMES 80 ± 2 % (lining is 100% reactive however practical Volume Solids: + 20°C coverage rate is based on 80 ± 2% volume solids) To touch 6 hours VOC: <50 g/l (UK regulations PG6/23) Full Cure 3 to 4 Days Off White or Clear Colours: Finish: semi-gloss These figures are given as a guide only. Factors such as air movement and humidity must also be considered Flash Point: 28° C SURFACE PREPARATION Cleanser/Thinner: Cleanser No.13 Do not thin Magnalux[™] components To be applied over Magnalux glass flake products only. Pack Size: 20 litre units Ensure surfaces to be coated are clean, dry and free from all surface Mixing Ratio: 98:2 base to hardener/catalyst contamination. Refer to application data sheet for inhibitor levels. MIXING Magnalux™ base: 1.07 kg/l **Density:** Magnalux™ hardener: 1.07 kg/l Fill base in a container and add hardener/catalyst at the specified mixing Shelf Life: Base and hardener/catalyst 6 months, stored at ratio. Stir thoroughly until a homogeneous compound is obtained. temperatures below 20°C, away from heat sources We recommend to fill the mixed material into a clean container and mix and out of direct sunlight. Frequent temperature cycling will shorten storage again shortly as described above to avoid incorrect mixing. life. **Recommended Application Methods:** Airless sprav Brush application is not recommended. **Typical Thickness: Recommended Spreading Rate Per Coat** 200 µm Dry Wet 250 µm Theoretical 0.268 kg/m² 0.250 l/m² Consumption* Theoretical Coverage* 3.74 m²/kg 4.00 m²/l There is often a difference between the measured wet film thickness (WFT) and the true applied wet film thickness – this is due in part to inaccuracy in WFT measurement and flow and leveling characteristics of UHS and SF linings. Pot Life: + 20°C 50 min



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APPLICATION CONDITIONS

In conditions of high relative humidity, e.g. 80-85% 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 and curing times will be significantly extended, and spraying characteristics may be impaired. If application and curing temperatures fall below 5°C, full cure may not be obtained - post curing may be required for certain aggressive environments - see additional notes.

It is not advisable to apply polyester coatings when the air or substrate temperature exceeds 45°C, or the substrate temperature exceeds 55°C. These conditions can introduce paint filmformation defects such as dry spray, pinholing, bubbling etc. For application outside these temperature limits it is recommended that advice is sought from Sherwin-Williams.

Overcoating:

This product should not be overcoated due to the wax in the formulation.

APPLICATION EQUIPMENT

Airless Spray - Graco King 30:1 or similar - all filters removed - Min 3/8" hose diameter

TipSize:	0.7 - 1.2 mm (0,028 - 0,048 inch)
Fan Angle:	45° - 60°

Operating Pressure: 190 - 220 bar

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 and operating pressure chosen. However, the operating pressure should be the lowest possible 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.

Brush application is not recommended.

RECOMMENDED SYSTEMS

Topcoat for Magnalux glass flake products.

Between 200 and 400 microns dependent upon duty and environment. This material is a barrier coating and the thickness needed is dependent upon service conditions.

ADDITIONAL NOTES

Drying times, curing times and pot life should be considered as a guide only.

For optimum immersion service normal full cure must be achieved, e.g. 72 hours at 25°C (post curing at 80-100°C will shorten the cure time to 3 hours and may be recommended for some aggressive environments).

For immersion spark test at 5 kV per 1000 microns dft and repair defects by overcoating with the specificed dft of Magnalux 43VC.

The reaction between the base component and catalyst is highly exothermic. Deviation from the recommended mxing ratio should not be undertaken without first consulting Sherwin-Williams.

The catalyst must be stored separately from the base, and from any other paint or chemical products, in accordance with the product safety data sheet.

The quoted pot lives are typical figures for a full 20 litre unit at 2% catalyst level. Should any thickening or lumps appear in the mixed product, this should be discarded and the equipment flushed through and cleaned immediately. Reduction in catalyst level and/or volume of mixed product will extend the pot life. Flushing of spray equipment is essential before any break in work, and is recommended at regular intervals throughout the application procedure. Only mix units of Magnalux 43VC as they are required for immediate use.

Magnalux products should not be thinned with cleanser thinners or any other solvent. Thinning will severely impair the curing mechanism and subsequent performance. Thinning with normal paint solvent can lead to exothermic reaction and possible fire or explosion hazard.

Magnalux products must not applied over any existing painted surface, or any substrate which contains copper or zinc compounds. This includes copper or zinc based paints, or metal sprayed surfaces.

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

www.sherwin-williams.com/protectiveEMEA

This Data Sheet is specifically subject to the disclaimer which can be found at http://protectiveemea.sherwin-williams.com/Home/Disclaimer



Protective & Marine Coatings PRODUCT DATA SHEET

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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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