



# Protective & Marine Coatings

# MAGNALUX™ T41V VINYL ESTER GLASS FLAKE

FORMERLY KNOWN AS DURAGLASS T41V

Revised 05/2016 Issue 6

## PRODUCT INFORMATION

### PRODUCT DESCRIPTION

Superior quality glass flake vinyl ester designed for use in tropical conditions

### RECOMMENDED USE

Superior grade vessel lining offering exceptional protection against a wide range of aggressive chemicals, abrasion and elevated temperatures.

### RECOMMENDED APPLICATION METHODS

Airless Spray  
Plural Component Airless Spray  
Brush ( for small areas and touch up only )

**Recommended Cleanser/Thinner:** No 13  
MUST NOT BE THINNED.

### PRODUCT CHARACTERISTICS

**Flash Point:** Base : 32°C Additive : Above 32°C

**Colour:** Off White

**Pot Life:** 30 minutes at 35°C  
- see additional note overleaf

**Solids by Volume:**  
Theoretical 98% at time of mixing. Practical typically 85% ± 5%.  
All vinyl/polyester resin systems are subject to monomer loss and material shrinkage during application and curing.

### RECOMMENDED THICKNESS

Dry film thickness	Wet film thickness	Theoretical coverage
500 microns	616 microns	1.6 m <sup>2</sup> /ltr*

\* This figure makes no allowance for surface profile, uneven application, overspray or losses in containers and equipment.  
(Thickness/spread based on practical measurement).

Film thickness will vary depending on actual use and specification

### PRACTICAL APPLICATION RATES - MICRONS PER COAT

	Airless Spray
Dry	500*
Wet	588

\* Maximum sag tolerance typically 1020µm wet (1000µm dry) by airless spray

### AVERAGE DRYING TIMES

@ 35°C

**To touch:** 1 hour

**To recoat:** 1 hour

**To handle:** 1½ hours

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

### RECOMMENDED SYSTEMS

Magnalux P1 Primer  
Indefinitely overcoatable with itself or other Magnalux products.

### PACKAGE

A two component material supplied in separate containers to be mixed prior to use

**Pack Size:** 25kg and 6kg units when mixed

**Mixing Ratio:**  
100 parts base to 2 parts catalyst by weight

**Weight:** 1.4 kg/litre

**Shelf Life:** 6 months if material stored below 25°C  
3 months if material stored above 25°C



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#### SURFACE PREPARATION

Blast clean to Sa2½ BS EN ISO 8501-1:2007 using angular grit. Minimum surface profile 75 microns. Ensure surfaces to be coated are clean, dry and free from all surface contamination.

#### APPLICATION EQUIPMENT

**Airless Spray** - GRACO KING 45:1 or SIMILAR - ALL FILTERS REMOVED - MIN 3/8" HOSE DIAMETER

Nozzle Size : 0.58 - 1.01mm (23-40 thou)

Fan Angle : 50°

Operating Pressure : 190-220kg/cm² (2700-3150 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 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.

#### Brush

The material is suitable for brush application, as a stripe coat or for touch up of small areas. Application of more than one coat may be necessary to give equivalent dry film thickness to a single spray applied coat.  
Refer to separate application data sheet for full details.

#### APPLICATION CONDITIONS AND OVERCOATING

In conditions of high relative humidity, ie 80-85%, 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 15°C, drying and curing times will be significantly extended, and spraying characteristics may be impaired.

It is not advisable to apply polyester coatings when the air or substrate temperature exceeds 45°C. These conditions can introduce paint film formation defects such as dry spray, pinholing, bubbling etc.

#### 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 ie 72 hours @ 35°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 5kv per 1.0mm DFT and repair defects by overcoating with the specified dft of MagnaluxT41V. The reaction between the base component and catalyst is highly exothermic. Deviation from the recommended mixing 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 25kg unit @ 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 as they are require 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 solvents can lead to exothermic reaction and possible fire or explosion hazard.**

Magnalux products must not be 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.

#### 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.

#### HEALTH AND SAFETY

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