Protective & Marine Coatings

MAGNALUX™ P1
VINYL ESTER BASED PRIMER

FORMERLY KNOWN AS DURAGLASS P1

Revised 11/2016 Issue 10

PRODUCT INFORMATION

PRODUCT DESCRIPTION

Magnalux P1 is a Vinyl ester based primer

RECOMMENDED USE

Holding primer for use under all polyester and vinyl ester coatings. For use on both blast cleaned steel and concrete surfaces

RECOMMENDED APPLICATION METHODS

Airless Spray
Brush
Roller

Recommended Cleanser: No 13 for cleaning only.
MUST NOT BE THINNED

PRODUCT CHARACTERISTICS

Flash Point: Base 32°C Additive 55°C

% Solids by Volume:
Theoretical 98% at time of mixing. Practical typically 60 ± 5%. All vinyl/polyester resin systems are subject to monomer loss and material shrinkage during application and curing.

Pot Life: ¾ hour at 15°C ½ hour at 23°C

Colour Availability: Red Oxide

VOC
0.8 gms/litre determined practically in accordance with UK Regulations PG6/23
0.83 gms/litre calculated from formulation to satisfy EC Solvent Emissions Directive
1 gms/kilo content by weight from formulation, to satisfy EC Solvent Emissions Directive.

TYPICAL THICKNESS

Dry film thickness	Wet film thickness	Theoretical coverage
25* microns	42 microns	24m²/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	Brush	Roller
Dry	25*	25	25
Wet	42	42	42

** Maximum sag tolerance with overlap typically 50µm dry by airless spray.*

AVERAGE DRYING TIMES

	@ 15°C	@ 23°C
To touch:	2 hours	1½ hours
To recoat:	2 hours	1½ hours
To handle:	3 hours	2½ hours

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

RECOMMENDED TOPCOATS

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: 5 litre units

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

Weight: 1.0 kg/litre (may vary with shade).

Shelf Life: 3 months or 'Use By' date where specified. Store at 25°C

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SURFACE PREPARATION

Blast clean to Sa2½ BS EN ISO 8501-1:2007. Minimum surface profile 75 microns.

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

APPLICATION EQUIPMENT

Airless Spray

Nozzle Size:	0.38mm (15 thou)
Fan Angle:	50°
Operating Pressure:	196-220kg/cm² (2500-3150 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.

N.B. Airless spray application should not be used for priming concrete. Use only brush or roller application for concrete substrates (preferably brush).

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

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

APPLICATION CONDITIONS AND OVERCOATING

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

Application and curing temperatures below 5°C. Full cure may not be obtained - post curing may be required for certain aggressive environments - see additional note.

Application at steel temperatures above 50°C is not recommended.

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

ADDITIONAL NOTES

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

Solids by volume of the product can vary significantly, depending on the amount of monomer lost and shrinkage during application and curing. Method of application and temperature/ventilation conditions will therefore affect the practical solids contents.

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 20 litre 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 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 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 sprayed surfaces.

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.