



ENVIROBASE®
HIGH PERFORMANCE

PPG's advanced waterborne basecoat system
ENGINEERED FOR EXCELLENCE



Product Information

EnviroLOCK

LVP-201 : LVP-205 : LVP-207

PRODUCTS

EnviroLOCK	LVP-201 : LVP-205 : LVP-207
Low VOC EnviroLOCK Hardener	LVH-330
Low VOC Hardener (Hi-Build WOW option)	LVH-320
Low VOC Thinners	LVT-430 : LVT-420 : LVT-410 : LVT-405
Low VOC Primer Accelerator Thinner	LVT-450

PRODUCT DESCRIPTION

EnviroLOCK is a Low VOC wet-on-wet primer that has been developed using the latest self levelling primer technology and can be used to optimise the priming process when used in combination with *Envirobase HP*. It is designed to deliver a high quality final appearance that is equivalent to a sanded primer without the need to be sanded! Excellent application, laydown and holdout are the keys to this product's performance.

Because of the excellent adhesion characteristics of *EnviroLOCK*, OE electrocoat in good condition no longer requires sanding. The result is a very fast process for painting new panels. *EnviroLOCK* can be coated directly with *Envirobase HP* colour after flash off. New parts can be primed in batches in advance with minimal preparation, and can be held ready for the topcoating process with the rest of the vehicle for up to 5 days (at 20°C) with no sanding.

Due to the excellent adhesion and anti-corrosion properties of *EnviroLOCK*, small rub throughs on electrocoated panels do not require the use of an etch primer before it is applied.

PREPARATION OF SUBSTRATE

EnviroLOCK can be applied over a wide range of substrates including:

Well cleaned unsanded Electrocoat (If sanding is required use P400)

Bare steel areas up to 10cm diameter without the need for an Epoxy Primer



Galvanised Steel up to 10cm diameter without the need for an Epoxy Primer

Aluminium up to 10cm diameter without the need for an Epoxy Primer

Aged painted and original surfaces sanded with P320

GRP, Fibreglass after final sanding with P320



Polyester body filler after final sanding with P320

Second hand parts with minor (credit card size) repairs. Final sand with P320

Note: For areas of bare metal above 10cm in diameter DP616 EpoxyTHANE may be used in standard mode or Wet-On-Wet prior to the application of *EnviroLOCK*. **DO NOT** apply *EnviroLOCK* over DP612 or any acid etch. **DO NOT** apply over SUA 1K Epoxy Primers unless COMPLETELY dry.

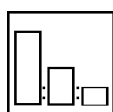
Make sure all surfaces are de-greased, clean and dry before priming

MIXING RATIO % TO ACHIEVE GREYMATIC SHADES

LVP-201 White (G1) - LVP-205 Grey (G5) and LVP-207 Dark Grey (G7) can be mixed together to create G3 and G6 colours. Please follow the chart below to mix your choice of colour before adding hardener & thinner. DO NOT TINT WITH DG Tinters. This will cause adhesion issues.

% By Weight	G1	G3	G5	G6	G7	
LVP-201	100%	75%				
LVP-205		25%	100%	48%		
LVP-207				52%	100%	

MIXING RATIO BY VOLUME WOW MODE



PRODUCT

LVP-20X

LVH-330

THINNER

LVT- 450

PARTS

2 VOLUME

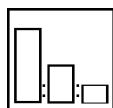
1 VOLUME

0.5 VOLUME Up to 30°C

Note: If batch priming or overnight air drying - use LVT-410 in place of LVT-450

MIXING RATIO BY VOLUME HIGH BUILD MODE

In this mode *EnviroLOCK* can be used WOW and is sandable after full cure with P400 dry



PRODUCT

LVP-20X

LVH-320

THINNER

LVT-450 50/50 with LVT-410 (LVT-405 above 30°C)

DO NOT use LVT-450 100% this could cause adhesion issues

PARTS

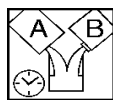
4 VOLUME

1 VOLUME

2 VOLUME

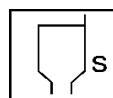
Note: If batch priming or overnight air drying - use LVT-410 in place of LVT-450

POTLIFE @ 20°C



20 - 30 minutes at 20°C

SPRAY VISCOSITY @ 20°C



16 - 18 Seconds (DIN4)

SPRAYGUN SETUP



1.3mm - 1.4mm

SPRAY PRESSURE

HVLP / RP

1.6 – 2 bar

CONVENTIONAL

25 – 30 PSI / 160-200 KPA

Wet-On-Wet APPLICATION GUIDE

EnviroLOCK should be filtered through a fine paint strainer and then applied in an even wet coat as if you were applying topcoat. Only one coat is required.

Note: *EnviroLOCK* can also be used for batch priming new parts. New parts pre primed with *EnviroLOCK* can be coated later without sanding for up to 5 days (at 20°C) when using *Envirobase HP* as a topcoat. When spot priming, the use of *SXA860 Blending Thinner* will soften the blended edge of the primer. *If leaving overnight or batch priming, DO NOT USE LVT-450.*

NUMBER OF COATS & FLASH OFF



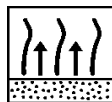
Flash off

Apply one even wet coat

10-15 minutes

Turn booth spray temperature up during flash off

Apply *Envirobase HP* basecoat after flash off



Hi Build mode cure

20 minutes @ 60°C

Short Wave infra red

12 - 20 minutes depending on unit

If batch priming parts, leave to air dry overnight or bake at 65°C for 30 minutes

TOTAL DRY FILM BUILD

25 - 35 um

BATCH PRIMING ONLY

OVERCOAT / RECOAT PREP

Degrease (Denib if required)



OVERCOAT / RECOAT TIME

Up to 5 days (at 20°C) without sanding.

PAINTING PLASTICS

EnviroLOCK can be applied directly over well prepared and cleaned ABS, PPO, PC, PC/PBT, PUR and SMC, as well as sanded and pre-primed bumpers.

Large bare plastic sections or rub through areas on bumpers, e.g. PP, TPO, PP/EPDM should be primed first with a light coat of D820 Plastic Primer and flashed off 15 minutes or SU4903 and flashed off for 5 minutes before the application of *EnviroLOCK*.

EQUIPMENT CLEANING

After use, clean all equipment thoroughly with cleaning solvent or thinner.

HEALTH AND SAFETY



Please refer to Material Safety Data Sheets for full Health and Safety details and product can labels.

Global Hardeners and activated *EnviroLOCK* contain isocyanate and therefore particular safety precautions must be taken.

Goggles must be worn when mixing and using to prevent accidental splashing into the eye. If contact occurs with eyes give prolonged irrigation with water and get medical attention immediately.

Good ventilation and extraction must be provided in the working environment.

Wear suitable protective equipment to prevent skin contact with this material.

When spraying this product the operator (and persons in vicinity) must wear suitable air-fed breathing apparatus.

Do not smoke whilst using this material.

This product is for professional use only.

The information given in this sheet is for guidance only. Any person using the product without first making further inquiries as to the suitability of the product for the intended purpose does so at his own risk and we can accept no liability for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of such use. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.

Drying times quoted are average times at 20°C/68°F. Film thickness, humidity and shop temperature can all affect drying times.



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