



ENVIROBASE®
HIGH PERFORMANCE

PPG's advanced waterborne basecoat system
ENGINEERED FOR EXCELLENCE



Product Information

EnviroPRIME

LVP-219

PRODUCTS

EnviroPRIME
Low VOC Hardener
Low VOC Thinners

LVP-219
LVH-320
LVT-430 : LVT-420 : LVT-410 : LVT-450

PRODUCT DESCRIPTION

EnviroPRIME is a versatile grey 2K primer which meets EU regulations for VOC. It is quick-drying, easy to apply and sand as well as having excellent surface levelling and gloss holdout over a wide range of substrates.

EnviroPRIME may be applied directly to sound original paintwork, polyester bodyfillers and suitable adhesion primers. It may be directly overcoated with *ENVIROBASE EHP* and *GRS Solid Colour*.

By simple adjustment of the thinning ratio, *EnviroPRIME* may be applied as a high build or conventional primer surfacer as well as a convenient roll-on-primer. *EnviroPRIME* may be air-dried, low-baked, Infra-red or Gas IR cured.

PREPARATION OF SUBSTRATE

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

Well cleaned and sanded Electrocoat - P320-P400 (dry)

Bare steel pre-primed with D831, D834 or similar



Galvanised Steel pre-primed with D831, 410-48248 or similar

Aluminium pre-primed with D831, 410-48428 or similar

Aged painted and original surfaces sanded with P320

GRP, Fibreglass after final sanding with P320



Polyester body filler after final sanding P120-180 (high-build version)

Featheredge of repairs sanded with P240-P320 (dry)

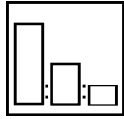
Make sure all surfaces are de-greased, clean and dry before priming

Application Guide

EnviroPrime can be mixed to create 3 different options according to the requirements of the refinisher:

- (i) 8:1:0.5 with LV Hardener as a roll-on-primer.
- (ii) 8:1:1 with LV Hardener and Thinner for optimum film build as a high build primer filler.
- (ii) 8:1:2 with LV Hardener and Thinner as a primer surfacer.

MIXING RATIO BY VOLUME



PRODUCT

LVP-219

LVH-320

THINNER

LVT-4XXX

PARTS

8 VOLUME

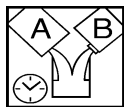
1 VOLUME

0.5 VOLUME Roll-on
1 VOLUME High Build
2 VOLUME Surfacer

<i>Hardener and thinner Selection</i>	<i>Temperature</i>	<i>Hardener</i>	<i>Thinner</i>
	Up to 18°C	LVH-320	LVT-430
	18 – 25°C	LVH-320	LVT-420
	25 – 35°C	LVH-320	LVT-410
	Over 35°C	LVH-320	LVT-405
	Accelerated mode: under 20°C	LVH-320	LVT-450

Do not use LVT-450 Primer Accelerator Thinner if the primer is to be baked or cured with IR lamps or if higher ambient temperature curing conditions are likely to be experienced.

POTLIFE @ 20°C



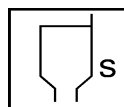
Standard Thinners

20 - 30 minutes at 20°C

Accelerator Thinners

15 - 20 minutes at 20°C

SPRAY VISCOSITY @ 20°C



30 - 40 Seconds (DIN4) Hi-Build

20 - 25 Seconds (DIN4) Primer Surfacer

SPRAYGUN SETUP



1.6mm - 2.0mm for High Build

1.4mm - 1.6mm for Primer Surfacer

SPRAY PRESSURE

HVLP / RP

1.6 – 2 bar

CONVENTIONAL

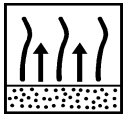
25 – 30 PSI / 160-200 KPA

NUMBER OF COATS & FLASH OFF



Between coats

up to a maximum of 4
5 - 10 minutes



Before stoving

Bake immediately

DRYING TIMES



Dust-free at 20°C

5 mins

Through dry at 20°C

4 hours



Through-dry at 60°C

30 mins



*Through-dry with IR
Short wave*

12 - 20 mins depending on IR unit

TOTAL DRY FILM BUILD

50µm-180µm depending on Mode

SANDING



Grade dry

P240 Block followed by P400 - P500 5MM orbital

OVERCOAT WITH

Envirobase EHP or Global DG Solid Colour

PAINTING OF FLEXIBLE SUBSTRATES - FLEXIBLE substrates are all plastic types except GRP

Please note: The positioning of plastic components on motor vehicles, i.e. bumpers, means they are more likely to be subjected to, bumps and knocks from outside sources, such as other motor vehicles, gutters, curbs, brick walls etc. PPG recommends flexibilising all plastics, particularly bumper bars, to improve impact resistance.

Additives are also required when applying over a flexible substrate (typically plastics). The additives required and the appropriate volume and weight mix ratios are indicated in the tables below and are also available on paint manager. In a repair situation PPG recommends that flexibilised 2K primers and polyester filler, be applied over the appropriate PPG plastic primer. (See substrate preparation section in PPG product manual)

Note: Keep primer film build to a minimum on plastic substrates. Apply Maximum 2 coats over SUA4903/SA4903 Advanced Plastic Bond or D820 Plastic Adhesion Promoter

Substrate	LVP-219	LVH - 320 Hardener	D814 Flexible Additive
FLEXIBLE	7 Parts	1 Part	1 Part

RFU Mix ratio available on Paint manager

Performance Guidelines

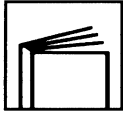
When spot priming with *EnviroPRIME* as a Spray Filler / Primer Surfacer, adopt the following procedure:

1. Ensure that the surface is thoroughly sanded to the panel edge, breakline or to a distance 15 centimetres beyond the feathered edge area, whichever is the smaller.
2. Apply the first coat to the entire area to be primed then apply subsequent coats inside the previous coat allowing the correct flash-off times between coats. (This avoids building up an edge and trapping dry spray.)
3. Allow to dry as normal, then be careful to thoroughly level the repair edge when sanding. Do not attempt spot repair on lacquer or 1K finishes.
4. *EnviroPRIME* and its ancillaries are sensitive to moisture, so all equipment must be perfectly dry. Where humidity is in the range 70 – 80%, use of LVT-405 Extra Slow Thinner is recommended. Do not attempt to use *EnviroPRIME* at humidity levels exceeding 80%.
5. Do not use LVT-450 Primer Accelerator Thinner if the primer is to be baked or cured with IR lamps
6. To ensure maximum adhesion and impact resistance, *EnviroPRIME* must be coated within 72 hours of application. After this time it should be sanded and recoated with itself or sanded and *EnviroLOCK* applied in Wet On Wet mode prior to topcoat application.

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 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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