

**BERGER**

PRODUCT SPECIFICATIONS

LUXAPRIME 1501

Etch Primer

PRODUCT DESCRIPTION

A two component, etching / wash primer based on a polyvinyl butyral resin, phosphoric acid and zinc chromate anti corrosive pigmentation.

DESIGN FEATURES

An acidic pre-treatment etching primer for use on galvanised iron, aluminium, zinc, copper and *other non-ferrous substrates to promote and enhance adhesion of subsequent coatings.

Very fast drying.

Can be over-coated with a variety of single pack and two pack products.

Extended overcoating times of up to 3 months.

Excellent intercoat adhesion properties.

*Please consult your Berger Paints Representative for specific recommendations on substrate suitability and product suitability for overcoating.

PHYSICAL CHARACTERISTICS

Recommended Application Data	Wet [μ m]	Dry [μ m]	m ² /l
Theoretical Coverage	63	10	16

Volume Solids 16 % (based on ASTM D2697)

VOC (Theoretical) Maximum 550 gm/L

Dry Film Thickness Range 10 μ m (Do not exceed 20 μ m)

Flash Point 15 °C

Finish Matt

Colour Range Green, Off white

Standard Packing Size 5 litres set (4 litres Base : 1 litres Acid Diluent)
4 kgs set (3.2 kgs Base : 0.8 kg Acid Diluent)

Mixing Ratio (by Weight / Volume) 4 part Base : 1 part Acid Diluent

APPLICATION METHOD

CONVENTIONAL AIR SPRAY This is the recommended method of application.
Use standard equipment with a pressure at 2.8 – 3.0 kg/cm².

BRUSH OR ROLLER May be used for difficult shapes or touch-up; however, care must be taken not to exceed the recommended film thickness and ensure that an even film is applied.

DRYING & CURING TIME

Substrate Temperature	Touch Dry	Hard Dry	Overcoating Interval		Pot Life
			Minimum	Maximum	
15 °C	30 minutes	2 hours	6 hours	3 months	10 hours
25 °C	20 minutes	1 hour	4 hours	3 months	8 hours
35 °C	15 minutes	30 minutes	3 hours	3 months	6 hours

USEFUL INFORMATION

THINNER : SOLVALUX 5-30 (Maximum 20 % for spray application)
(Maximum 5 % for brush / roller application)

CLEANER : SOLVALUX 5-30

STORAGE : Store in a cool dry shaded area.

SHELF LIFE AT 25 °C : 9 months when stored as prescribed in the MSDS.



SURFACE PREPARATION

The service life span and the service performance of LUXAPRIME 1501 are directly related to the degree of surface preparation.

NON FERROUS METALS

- Remove all wax, oil and grease by solvent cleaning in accordance with the guidelines given by SSPC-SP1.
- A wet abrasion using SOLVALUX 5-30 and abrasive paper will improve subsequent adhesion and ensure removal of surface contaminants.
- The surface to be coated must also be clean and dry.

GALVANISED STEEL OR ZINC METAL SPRAY

- Ensure that white zinc salts and other surface contaminants are removed by abrading with abrasive paper or suitable mechanical tools.
- Remove all wax, oil and grease by solvent cleaning in accordance with the guidelines given by SSPC-SP1.
- The surface to be coated must be clean and dry.

To avoid condensation of moisture onto substrate prior to coating application, relative humidity should not exceed 85% and substrate temperature should be more than 3°C above Dew Point.

SUITABLE FINISH COATS	Luxol 1000, Epilux 610, Epilux 78, Epilux 685, Epilux 218, Epilux 58HS, Epimastic 3000HS, Luxol 5000, Luxathane 5075, Luxathane 5150HS, Luxathane 5000 HB, Epilux 4, Epimastic 3100
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NOTES

- The coating specifications given above are typical. For specific recommendations to suit individual applications, please refer to your Berger Paints representative.
- Do not over-apply. Do not exceed 20µm. Over-application may lead to loss of adhesion.
- Do not apply after the pot-life has expired although the paint still appears liquid.
- This product is not designed to confer opacity on the substrate.

SAFETY PRECAUTION

This product contains Zinc Chromates and Phosphoric Acid.

Avoid contact with eyes and skin. Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Use barrier cream.

This product contains low flash point solvents, do not use in poorly ventilated areas especially in confined tank interiors.

Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe in vapour or spray mist.

This product is flammable. Keep away from sources of ignition. Do not smoke.

Take precautionary measures against static discharge.

In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.

FIRST AID

- Eyes** : In the event of accidental splashes, flush eyes with warm water immediately and seek medical advice.
- Skin** : Wash skin thoroughly with soap and water or approved industrial cleaner. Do Not Use solvents or thinners.
- Inhalation** : Remove to fresh air, loosen collar and keep patient rested.
- Ingestion** : In case of accidental ingestion, DO NOT INDUCE VOMITING. Obtain immediate medical attention.

For further safety information, please refer to our **Material Safety Data Sheet (MSDS)**

DISCLAIMER

The information provided on this data sheet is not intended to be complete and is provided as general advice only. It is the responsibility of the user to ensure that the product is suitable for the purpose for which he wishes to use it. As we have no control over the treatment of the product, the standard of surface preparation of the substrate, or other factors affecting the use of this product, we are not responsible for its performance nor would we accept any liability whatsoever or howsoever arising from the use of this product unless specifically agreed to in writing by us. The information contained in this data sheet may be modified by us from time to time, and without notice, in the light of our experience and continuous product development.



BERGER PRODUCT SPECIFICATIONS

BERGER GLOSS 7

Alkyd Gloss Finish

PRODUCT DESCRIPTION

A solvent-based quality alkyd coating formulated with weather resistant inert pigments that provides an attractive and durable high gloss finish.

- Good outdoor durability and colour retention properties.
- Excellent adhesion to ferrous surfaces, wood and aged coatings.
- Suitable for application as a finish coat for masonry substrates.
- Easy application by brush or roller.
- High opacity / covering ability.
- Lead free.
- Washable and able to clean to keep away from dirt pickup.
- Certified for compliance to SS7 by TUV SUD PSB Pte Ltd.

DESIGN USE

- As a finish coat for both interior and exterior ferrous surfaces, masonry substrates, wood and timber products etc.
- As a maintenance coating over aged coatings.

PHYSICAL DATA

VOLUME SOLIDS	50%
DRY FILM THICKNESS (DFT)	25 – 35 µm per coat
WET FILM THICKNESS (WFT)	50 – 70 µm per coat
NUMBER OF COATS	2
THEORETICAL COVERAGE	20.0 m ² /litre per coat @ 25 µm dft
FINISH	High Gloss
COLOUR RANGE	Wide range available. (Please refer to our colour fan deck)
NO. OF COMPONENTS	One
STANDARD PACKING SIZE	5 Litres

APPLICATION METHOD

Brush, Roller or Conventional Air Spray These are the recommended methods of application.

Stir contents of the can thoroughly before use. Thinning is not usually required. However, if thinning is desired, do not exceed the recommended thinning ratio.

Do not apply this product if the relative humidity exceeds 85% or if the substrate temperature is within 3°C of the dew point.

DRYING TIME

Substrate Temperature	Touch Dry	Hard Dry	Overcoating Interval	
			Minimum	Maximum
15 °C	12 hours	24 hours	16 hours	Indefinite
25 °C	6 hours	16 hours	12 hours	Indefinite
35 °C	3 hours	12 hours	6 hours	Indefinite

ADDITIONAL INFORMATION

Thinner	Solvalux 7-9
Thinning Ratio	5% maximum
Cleaning Solvent	Solvalux 7-9
Flash Point	> 38°C
Storage Requirements	Store in a cool, dry area away from direct sunlight.



BERGER GLOSS 7

Alkyd Gloss Finish

SURFACE PREPARATION

The service life span and the service performance of this product are directly related to the degree of surface preparation.

- ☐ This coating is designed to be applied over an alkyd primer / undercoat, e.g. Berger Luxaprim 1250 / Berger Undercoat.
- ☐ The surface to be overcoated should be dry, free from surface contaminants, sound and undamaged.
- ☐ Soluble salts must be removed by washing with fresh water. Dry brushing should be done to remove dirt and dust. If grease is present, clean using a mild detergent or solvent and rinse thoroughly.
- ☐ All loose and flaking coatings should be removed and taken back to a firm edge.
- ☐ Ferrous surfaces should be primed with Berger Luxaprim 1250, Luxaprim 1000 or other suitable primer. A build coat of Berger Undercoat is recommended prior to application of this product.
- ☐ Berger Aluminium Wood Primer should be used to prime wooden substrates. A build coat of Berger Undercoat is recommended prior to application of this product.
- ☐ Ensure that the minimum overcoating interval of the primer / build coat has been exceeded prior to application of this product.

PRODUCT USE RESTRICTIONS

- This product is not suitable for exposure to acids, alkalis, solvents and oils.
- This product is not suitable for immersed conditions.
- This product is not recommended to wash by chemicals, detergents and jet washing.

SAFETY PRECAUTIONS

Avoid contact with eyes and skin. Wear suitable protective clothing such as overalls, gloves and goggles. Use a dust mask if applying by spray.

Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe vapour or spray.

This product is flammable. Keep away from sources of ignition. Do not smoke. Take precautionary measures against static discharge. In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.

FIRST AID

- Eyes** : In the event of accidental splashes, flush eyes with warm water immediately and seek medical advice.
- Skin** : Wash skin thoroughly with soap and water or approved industrial cleaner. Do Not Use solvents or thinners.
- Inhalation** : Remove to fresh air, loosen collar and keep patient rested.
- Ingestion** : In case of accidental ingestion, DO NOT INDUCE VOMITING. Obtain immediate medical attention.

For further safety information, please refer to our **Material Safety Data Sheet (MSDS)**

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BERGER PRODUCT SPECIFICATIONS

BERGER UNDERCOAT

Alkyd Undercoat

PRODUCT DESCRIPTION

A quality alkyd coating formulated to act as an intermediate coat as part of an alkyd coating system.

- High opacity / covering ability.
- Excellent barrier protection.
- Excellent intercoat adhesion.
- Good flow and levelling properties.
- Certified for compliance to SS34 by TUV SUD PSB Pte Ltd.

DESIGN USE

- As an intermediate coat as part of an alkyd coating system for use on both interior and exterior ferrous surfaces, wood and timber products etc.

PHYSICAL DATA

VOLUME SOLIDS	54%
DRY FILM THICKNESS (DFT)	35 µm per coat
WET FILM THICKNESS (WFT)	65 µm per coat
NUMBER OF COATS	1 – 2
THEORETICAL COVERAGE	15.4 m ² /litre per coat @ 35 µm dft
FINISH	Matt
COLOUR RANGE	White, Oyster (BS00A01) and Beige (BS08B17).
NO. OF COMPONENTS	One
STANDARD PACKING SIZE	1 Litres and 5 Litres

APPLICATION METHOD

Brush, Roller or Conventional Air Spray These are the recommended methods of application.

Stir contents of the can thoroughly before use. Thinning is not usually required. However, if thinning is desired, do not exceed the recommended thinning ratio.

Do not apply this product if the relative humidity exceeds 85% or if the substrate temperature is within 3°C of the dew point.

DRYING TIME

Substrate Temperature	Touch Dry	Hard Dry	Overcoating Interval	
			Minimum	Maximum
15 °C	2 hour	10 hours	24 hours	Indefinite
25 °C	1 hour	4 hours	8 hours	Indefinite
35 °C	30 minutes	2 hours	4 hours	Indefinite

ADDITIONAL INFORMATION

Thinner	Solvalux 7-9
Thinning Ratio	5% maximum
Cleaning Solvent	Solvalux 7-9
Flash Point	> 38°C
Storage Requirements	Store in a cool, dry area away from direct sunlight.



BERGER PRODUCT SPECIFICATIONS

BERGER UNDERCOAT

Alkyd Undercoat

SURFACE PREPARATION

The service life span and the service performance of this product are directly related to the degree of surface preparation.

- ☐ This coating is designed to be applied over a suitable alkyd primer, e.g. Berger Luxaprim 1250 or Berger Aluminium Wood Primer.
- ☐ The surface to be overcoated should be dry, free from surface contaminants, sound and undamaged.
- ☐ Soluble salts must be removed by washing with fresh water. Dry brushing should be done to remove dirt and dust. If grease is present, clean using a mild detergent or solvent and rinse thoroughly.
- ☐ All loose and flaking coatings should be removed and taken back to a firm edge.
- ☐ Ferrous surfaces should be primed with Berger Luxaprim 1250, Luxaprim 1000 or other suitable primer. Wood or timber surfaces should be primed with Berger Aluminium Wood Primer.
- ☐ Ensure that the minimum overcoating interval of the primer coat has been exceeded prior to application of this product.

PRODUCT USE RESTRICTIONS

- This product is not designed for direct application onto ferrous or wooden surfaces. A suitable primer should be used.

SAFETY PRECAUTIONS

Avoid contact with eyes and skin. Wear suitable protective clothing such as overalls, gloves and goggles. Use a dust mask if applying by spray.

Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe vapour or spray.

This product is flammable. Keep away from sources of ignition. Do not smoke. Take precautionary measures against static discharge. In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.

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