

VERL@C PU – UD-45

HIGH BUILD ULTRA DURABLE PROTECTIVE & AUTOMOTIVE COATING

BENEFITS

- Excellent chemical resistance.
- For Automotive
- Available in Clear and colors
- Easily applied by Spray HVLP or Conventional
- Excellent protective properties.
- Hardwearing: Good resistance to abrasion.
- Non dusting
- Resistance to thermal shocks and Non yellowing properties .

PRODUCT

VERL@C PU-UD-45 two component weather stabilized Acrylic Aliphatic High Build Polyurethane coating for corrosion protection and Automotive Application single Gloss system . It penetrates the surface to bind together to produce a hardwearing surface.

USES

Protect steel substrate and for increased resistance to oil, grease, water penetration, abrasion and chemical attack with non yellowing properties .

PROPERTIES

Color	: Available in various shades and Clear Lacquer
Finish	: S u p e r Glossy
Pot Life	: 3 hours at 25°C
Volume Solids	: Minimum 60- 65%.,
Recommended DFT	: 125 microns
Recoating period	: 4 - 6 hours
Dry Time	: 1 hour Touch / 72 hours Hard
Full Cure	: 7 days
Application method	: Spray HVLP .conventional
During Application	: Temperature 5 to 40°C In Service : 70°C

APPLICATION

Conventional / (pressure pot): 1.4mm Nozzle / 4 bars **Surface Preparation:** (a) steel substrates: the surface should be sound, free from laitance and contamination. All blow holes, surface cracks etc. shall be repaired with Verlac Fondo and Polyester Putty from good brands

(b) On fiber or Plastic I Surface: Oil contaminated surfaces should be thoroughly cleaned with a brushing should be done.

Priming: One coat of **VERL@C FONDO/HS** primer is recommended where PLATIC FIBER or steel surfaces are very porous. **Mixing:** VERL@C PU-UD-45 is supplied ready to use in pre-weighed packs of resin and hardener for easy on site mixing. Pour the hardener into the resin can, and mix well, using a paddle attached to an electric drill, for 2-3 minutes until a uniform color is obtained. At a ratio of 50% by volume for hardener.

Application: **VERL@C PU-UD-45** may be applied by brush or airless spray to give a continuous coating on the prepared surface. A second coat may be subsequently applied when first coat is dried. Preferably next day. **Coverage:** 3 to 3.5 m² per kg for two coat application. **Cleaning:** Tools and mixers should be cleaned with **VERL@C TOOL CLEAN** immediately after use.

PU-UD-45 is used for ultra High gloss Industrial application with Hardener HD-UD-45 at 50% by volume

CHEMICAL RESISTANCE

VERL@C PU-UD-45 has resistance to chemical attack as

follows.

Hydrochloric (acid) (35%)	: Occasional contact
Nitric acid (15%)	: Occasional contact
Sulphuric acid (10%)	: Regular contact
Citric acid (10%)	: Occasional contact
Sodium hydroxide (50%)	: Occasional contact
Ammonia (10%) solution	: Occasional contact
Urea (saturated)	: Regular Contact
Sugar (saturated)	: Regular contact
Sodium chloride (saturated)	: Regular Contact
Methanol	: Occasional Contact
Butanol	: Occasional Contact
Mineral Spirits	: Regular Contact
Xylene	: Occasional Contact
Lubrication Oil	: Regular Contact
Gasoline	: Occasional Contact

SHELF LIFE & STORAGE

VERL@C PU-UD-45 will have a shelf life of **12 months** in unopened containers when kept in dry conditions at a temperature between 5°C to 45°C. Storage at higher temperature or high humidity may reduce shelf life.

PACKING & COVERAGE

One Quart, US. Gallon & Pail pack. Consist of Base and Hardener.

1 liter of **VERL@C PU-UD-45** is sufficient to cover 13-15m² for a one coat application achieving DFT of (50 microns theoretical).

HEALTH & SAFETY

Gloves must be worn, and use goggles for overhead application to prevent contact with eye. Any splash should be washed with water and medical advice sought. In enclosed areas, good ventilation must be ensured, and smoking must be strictly prohibited while using

VERL@C PU-UD.

QUALITY ASSURANCE

HAMCO SARL manufactures entire range of construction chemicals Protective coatings ,wood coatings ,decorative paints ,water proofing systems

TECHNICAL SERVICES

While new advances and changes will take place but one thing will never change is quality and meeting special needs of our customers. Our technical personnel & experts are available to provide additional information and technical assistance. We are eager to work with you in development of new product and resolve your problem.

Typical application for steel/automotive :

Fondo primer /hs

Top coat :PU-UD-45

Thickness are per customer technical requirement



The information given in this data sheet is based on both the current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept the responsibility for any work carried out with our materials as we have no control over methods of application, site conditions etc. In view of the continuing research and development being undertaken in our laboratories we advise customers in their own interest to ensure that this data sheet has not been superseded by more up-to-date publication. All products are sold subjected to our standard conditions of sale which are available on request. Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact our local HAMCO SARL –VERLAC-representative.

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VERL@C PU – UD-45TM

Chemistry	
<i>Color</i>	Clear & (Special colors on order)
<i>gloss level</i>	Ultra gloss
<i>Volume Solids</i>	62% ± 3%
<i>typical thickness</i>	60 Micron dry Equivalent to 100 Microns Wet.
<i>theoretical coverage</i>	10 M2 / Liter at 60 Microns
<i>practical coverage</i>	Allow Appropriate Loss Factor
<i>Flash Point</i>	27 °C
<i>Specific Gravity</i>	1.0 Kg/l ± 3%
<i>Viscosity</i>	60ku/25 °C
<i>Thinner to use</i>	VERLASOL 200
<i>Hardener</i>	50% (HD-UD -45)
Application Method	
<i>common application fields</i>	General Steel /automotive
<i>Application methods</i>	Conventional / (pressure pot): 1.2/ 1.4mm Nozzle / 4 Bars -HVLP
<i>Number of Coats</i>	One Coats
<i>Recoating interval at 25°C</i>	4 - 6 Hours
<i>Thinning cleaner</i>	Verl@c cleaner
<i>preparation of substrate</i>	Sand paper +primer
<i>Dry Time</i>	1 Hour Touch Dry, 3 - 5 Hours Hard
<i>Time to clean application equipment</i>	Immediately after use.
<i>Packaging</i>	1 Quart, U.S. Gallon & Pail
<i>storage</i>	Between 5°C and 45°C Degrees
<i>Shelve life storage</i>	12 Month
<i>Shipping weight not including pallets and boxes</i>	us gallon/---kg US pail /---kg