

## VERL@C PU – UD-27/190

### HIGH BUILD ULTRA DURABLE PROTECTIVE & DECORATIVE POLYURETHANE COATING BENEFITS

- Excellent chemical resistance.
- Can be used on concrete, steel, galvanized steel substrates
- Available in attractive & pleasant colors
- Easily applied by brush or roller
- Excellent protective properties.
- Hardwearing: Good resistance to abrasion.
- Non dusting: Totally seal the concrete surface preventing dusting.
- Resistance to thermal shocks.

### PRODUCT

**VERL@C PU-UD-27/190** two component weather stabilized Acrylic Aliphatic High Build Polyurethane coating for corrosion protection. It penetrates the surface to bind together to produce a hardwearing surface.

### USES

Protect concrete and steel substrate and for increased resistance to oil, grease, water penetration, abrasion and chemical attack.

### PROPERTIES

**Color** : Available in various shades and Clear Lacquer

**Finish** : Glossy to semi-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** : Brush, Roll & Spray

**During Application** : Temperature 5 to 40°C **In Service** : 70°C

### APPLICATION

**Airless/tip:** .018"/.020" pressure not less than 150 bar **Conventional / (pressure pot):** 1.4mm Nozzle / 4 bars **Surface**

**Preparation:** (a) Concrete substrates: the surface should be sound, free from laitance and contamination.

All blow holes, surface cracks etc. shall be repaired with

VERL@C SCREED R or VERL@C SCREED VF.

(b) On Steel Surface: Oil contaminated surfaces should be thoroughly cleaned with a brushing should be done.

**Priming:** One coat of **VERL@C PU OR VERLA@C FONDO** primer is recommended where concrete or steel surfaces are very porous. **Mixing:** VERL@C PU-UD 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.

**Application:** **VERL@C PU-UD-27/190** 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 m<sup>2</sup> per kg for two coat application. **Cleaning:** Tools and mixers should be cleaned with **VERL@C TOOL CLEAN** immediately after use.

PU-UD-27 is used for High gloss Industrial application with Hardener HD-UD 25%

PU-UD-190 is used for Gloss and semi Gloss and matt Application .with Hardener HDAS 25%

### CHEMICAL RESISTANCE

**VERL@C PU-UD-27/190** has resistance to chemical attack as follows.

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

### SHELF LIFE & STORAGE

**VERL@C PU-UD-27/190** 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-27/190** is sufficient to cover 13-15m<sup>2</sup> 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 :

Primer :EPS or EPE or Mastic or EP ZRP 75 to 100 microns

Intermediate :Verl@c MIO or Verl@c EPS 150 to 200microns

Top coat :PU-UD-27-190 100 to 150 microns

### Typical application for concrete :

Primer :EPS or EPE or Mastic or SF primer

Top coat :PU-UD-27/190

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 supersede by more up-to-date publication. All products are sold subjected to our standard conditions of sale which are available an 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<sup>TM</sup>

<b>Chemistry</b>	
<i>Color</i>	White, Grey & (Special colors on order)&clear
<i>gloss level</i>	Semi Gloss /GLOSS/MATT
<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>	25% (HD-UD -27 )FOR PU-UD 27 OR 25% HDAS700(HD-190)
<b>Application Method</b>	
<i>common application fields</i>	<b>General Steel</b>
<i>Application methods</i>	Airless/tip: .018"/.020", pressure at tip not less than 150 bar Conventional / (pressure pot): 1.4mm Nozzle / 4 Bars      Brush Roller
<i>Number of Coats</i>	One Coats or more upon need
<i>Recoating interval at 25°C</i>	4 - 6 Hours
<i>Thinning cleaner</i>	~20% Verl@c cleaner
<i>preparation of substrate</i>	For Iron SA 2.5+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