

**Two component high gloss aliphatic polyurethane top coat. Excellent cost/performance. Very good retention of aesthetic properties.**

### Description

PU01 is a two component solvent based top coat for the protection of civil, industrial and marine structures with unlimited recoatability.

PU01 has an optimum relation between the aesthetic finish and the excellent outdoor durability under all atmospheric conditions.

### Properties

- Provides a good corrosion resistance under aggressive atmospheres.
- Chemical resistance to water, oils, solvents and mild chemicals splashes.
- Resistant to chalking and yellowing.
- Curing at temperatures down to 0 °C.
- Long term recoatability.
- Very good hardness and flexibility.
- Easy to apply by airless spray, roller or brush.
- Available in any color and suitable for use in tintometric systems.

### Recommended uses

- For indoor and outdoor use in workshop, new construction or maintenance.
- Over primer or intermediate coating.
- For outdoor protection of steel structures such as tanks and pipes, structures, bridges, railings, industrial and agricultural machinery, etc.
- In all types of environments such as offshore platforms, refineries, chemical plants, etc.
- Onto floorings exposed to medium mechanical stresses.
- Not suitable for immersion.
- Due to its wide versatility, different versions of the same product are available:
  - Textured or thixotropic version (see application instructions).
  - High gloss version (95% at 60°): special for workshop and direct spray gun application.
  - Quick drying version (Total Dry of 4hours): only for indoor use.

### Basic characteristics

Data at 23 °C and 60% RH:

Colour:	RAL Chart
Finish:	Glossy (Gloss at 60° > 90%)
Volume Solids:	55%± 2%
Specific weight:	1.30 ± 0.05 g/ml
Recommended dry thickness	Minimum: 40 µm (75 wet microns) Maximum: 60 µm (110 wet microns)
Theoretical coverage:	13.75 m <sup>2</sup> / l (40 µm) 9.15 m <sup>2</sup> / l (60 µm)
Dry to touch (40 µm):	1 hour
Total dry (40 µm):	6 hours
Pot-life	6 hours
Minimum recoating time:	8 hours
Maximum recoating time	Unlimited
VOC's	395 g/l
QUV Resistance (UVB-313, 500 h):	Gloss 60° > 80 % Color deviation ΔE < 1,5
Dry temperature resistance:	120 °C (en continuous) (ASTM D 2485)

#### Drying and recoating times (40 dry microns)

Temperature <sup>1)</sup>	0 °C	10 °C	20 °C	30 °C	40 °C
Dry to touch	8 h	3 h	1 h	45 m	30 m
Total dry	18 h	10 h	6 h	4 h	3 h
Curing time	12 d	7 d	5 d	3 d	2 d
Recoating <sup>2)</sup>	16 h	10 h	8 h	4 h	3 h

d: days; h: hours; m: minutes;

<sup>1)</sup> Referred to the substrate temperature.

#### Pot-life

Temperature <sup>3)</sup>	10 °C	20 °C	30 °C	40 °C
Pot-life	8 h	6 h	4 h	2 h

<sup>3)</sup> Referred to the ambient temperature.

#### Anticorrosive systems with PU01

Technical Bulletin 010. Ed.05-15: Anticorrosive protection systems.

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### Surface preparation

Over adequate primer or intermediate epoxy coatings. Surface must be clean, dry and free of salt, fat deposits and other pollutants.

### Application directions

**PU01-PV. Dur Top Coat** is supplied as two cans set that must be mixed prior application.

- Homogenize the Base (component A) with mechanical stirring ensuring that there are no remains of pigments in the bottom. Add all the Hardener (component B) to the base, and mix mechanically until a uniform product is obtained.
- Adjust viscosity, if needed, only with the recommended thinners. A thinner excess can cause sagging, so it is recommended to keep the product above 15°C.
- It must be ensured that continuous ventilation and the correct EPI's are used during the application. For indoor application, proper ventilation is recommended in order to facilitate curing and solvent evaporation.
- Wash all equipment immediately after application with the cleaning solvent. Do not allow material to remain in hoses, gun or spray equipment.

Mixing ratio (volume):	87% Base 13% Hardener
Pot-Life	6 hours
Thinner	VD-700
Cleaning solvent	VD-500
Airless	Thinner: 0-3 % volume Nozzle diameter: 0.017" a 0.023" Nozzle pressure: 150-200 bars
Air spray	Thinner: 10-15% volume Nozzle diameter: 0.055"-0.070" Nozzle pressure: 3-4 bars
Brush	Thinner: 0-5% volume

For textured version, apply 2 coats by means of an air gun spray:

- First coat: dilute up to 20% and apply like a primer coat.
- Finish coat: adjust the pressure. For thick textured finish, pressures of 1,5 bars are recommended; for fine textured finish, adjust to 3 bars.

### Application conditions

- The substrate temperature must be above -5°C, and always 3°C above the dew point to ensure a correct adherence.
- Relative humidity must be below 85%.
- Do not expose to rain or dew in the 24 hours after application. It can cause alterations in the finishing coating.

### Remarks

- Best results are achieved by Air Spray or AirMix. The high work pressure of the Airless equipment can cause overspray.
- Certain colours like yellow, red and orange, and for brush or roller application will require an extra coat. It's recommended to apply the finish coat over lighted coloured or the same colour intermediate or primers.
- Aluminium finish will present a satin gloss finish due to special formulation.
- Hardener is sensitive to moisture and can reduce pot life and affect gloss and colour.
- Theoretical spreading rate can change in function of several factors: application method, surface roughness, losses during mixing and application and dilution. An extra coat is recommended in welds, edges and sharp edges to enhance protection.
- If 60°C degrees are exceeded, finish aspect could change.
- Drying and overcoating times will be longer when film thickness is higher than recommended and if ventilation and air movement are restricted and temperatures are lower.

### Safety precautions

Safety labels of the packaging containing information necessary for proper handling. It is important to meet the requirements of the legislation. As a general rule, inhalation of solvent vapours and paint mist should be avoided, as well as contact of liquid paint with skin and eyes. When paint is applied in enclosed spaces forced ventilation should be provided, accompanied by the appropriate respiratory protection, skin and eyes, especially when applied with spray.

Complete information can be found on the safety data sheet available in [www.pinvisacoatings.com](http://www.pinvisacoatings.com)

### Packaging and storage

Sets of 20 l: Base 17.4 l.; Hardener: 2.6 l.

Sets of 4l: Base 3.48 l.; Hardener: 0.52 l.

Keep for 24 months in the unopened original packaging, in a controlled environment at a temperature between 5°C and 35°C and away from heat sources.

After that period of time, it is recommended not to use the product and consider a possible re-inspection in our premises