



Technical data sheet

PROTECTION MADE EASY

Cryltane HS Finish

Description and destination of the product

Cryltane HS Finish is a two component polyurethane paint of the “**high solid**” type, based on hydroxyacrylic and polyisocyanate binders. The dry paint film shows high hardness combined with elasticity.

Cryltane HS Finish does not yellow, resists weathering, has a good resistance to chemicals and an outstanding water resistance.

Cryltane HS Finish is used as top coat in polyurethane or epoxy anticorrosion systems.

Cryltane HS Finish is a finish coat of the “**high solid**” type (solids content in volume $\geq 70\%$).

Type of binder

Hydroxyacrylic resins and aliphatic isocyanates.

Type of pigment

Bariumsulfate, magnesiumsulicates and outdoor resistant pigments (lead free).

Colour

RAL-shades (except metallic and fluorescent colours), via Tematic machine. Other colour formula are available on demand.

Gloss

High satin (80% (± 10) Gardner 60°).

Technical data

- **Density:** 1.45 (\pm 0.05) g/cm³ (*)
- **Solids content:** 72% (\pm 2) in volume (*)
- **Mixing ratio:** 87/13 in weight
5/1 in volume
Mixing errors result in deviating properties and differences in gloss. Therefore we advise to mix the complete contents of base paint and hardener.
- **Viscosity:** 25-30 sec CF4
(A+B – 20% diluted)
- **Potlife:** 4 hours at 20°C
- **Drying times:**
 - dustfree : 40 minutes
 - tackfree : 5 hours
 - dry : 13 hours
- **VOC:**
 - < 250 g/L (not diluted)
 - < 420 g/L (22 % diluted)
- **Theoretical yield:**
 - 17.8 m²/L for 40 micron (*)
 - 7 m²/L for 100 micron (*)

The practical yield can largely be influenced by the roughness and porosity of the substrate, the applied layer thickness or the losses by airless application.

(*) depending on the colour

Surface preparation

The surface to be painted must be free of grease, oil, water, dust or other contaminants, which may hamper the good adhesion of the coating. Old epoxy or polyurethane surfaces need a sand paper or blast sweeping pre-treatment. As primer on aluminium, steel and galvanised steel, we recommend **Cryltane AC Primer**.

Use

Mix base and hardener HS (mixing ratio : 87/13 in weight, 5/1 in volume)

Incorrect mixing ratios result in different gloss levels and non-standard film properties. We therefore recommend to mix the complete content of base and hardener.

Ready for use by brush or roller application.

		Airless electric	Airless pneumatic	Pneumatic
Thinner 1		4-6%	0-4%	10-20%
Pressure		200 bar	450 bar	3-5 bar
Nozzle		0.013-0.015 inch	0.013-0.015 inch	1.2-1.5 mm
Angle		Between 20 and 60°	Between 20 and 60°	-
<u>Filters</u>	Suck up	Coarse min. 1 mm	Coarse min. 1 mm	-
	High	100 mesh	100 mesh	-
	Pressure in pistol	50 mesh	50 mesh	-

Tests have been performed with the Wagner Finish 500, 48/200, 66/70 and 66/250.

Clean the equipment with **Solvatane or Thinner 1**

Maximum dry film thickness obtained in one single operation :

- by brush : 80 micron
- by airless spray : 150 micron

Application conditions

The relative air humidity may not exceed 85% while the temperature of the surface must be at least 3°C higher than dew point during application.

Temperature and the humidity must always be measured close to the surface to be painted.

Storage stability

For the base paint : minimum 2 years in the original, unopened packing, stored in a dry environment at temperatures

between -10°C up to +40°C.

for the hardener : Minimum 18 months in the original, unopened packing, stored in a dry environment at temperatures

between -10°C up to +40°C.

Safety measure

For detailed information about safety measures, personal protection and transport data of this product, we refer to the safety data sheet.

The last update of our technical data sheets is always available at our website: www.libertpaints.be

Disclaimer

The information given in this technical data sheet is only a general product description, based on our experiences and tests and therefore does not represent a specific practical case. Consequently Libert Paints doesn't guarantee the functionality or result and takes no responsibility in this respect.

We advise our clients to test the applicability of the product to the nature and the state of the surfaces and to carry out the necessary representative tests in case of doubt. Please contact our R&D department as the occasion arises.

Attention: our clients should verify whether the present technical data sheet hasn't been replaced by a more recent version.