Technical data sheet

PROTECTION MADE EASY

Cryltane DTS 80

Description and destination of the product

Cryltane DTS 80 is a two pack high gloss acrylic polyurethane paint with a good adhesion on steel, aluminium, galvanised steel, stainless steel and plastics.
Cryltane DTS 80 can, thanks to the presence of zinc phosphate, be used as primer and finishing coat at the same time. In addition, we obtain thereby a system with good anti-corrosion properties. As finishing coat, **Cryltane DTS 80** is outdoor and chemical resistant. The cured paint film is characterized by a good hardness combined with elasticity.

Type of binder

Hydroxy acrylic and aliphatic isocyanate, through which the product has a good outdoor resistance.

Type of pigment

Zinc phosphate, barium sulphate, magnesium silicate and outdoor resistant pigments (lead-free).

Colour

RAL-colours (except metallic and fluorescent colours) NCS, British Standard, colours TVT 600 and NOVA 720.

Gloss

80 (± 10) % Gardner 60°

Technical data

Density:	1,45 (± 0,05) g/cm³
Solids content:	76 (± 2)% by weight 58 (± 2)% by volume
Mixing ratio:	89/11 (in weight) 6/1 (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.
Potlife:	± 5 hours

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- **VOC:** 350 g/l (not diluted)
  < 490 g/L (20 % diluted)
- Indicative drying times (R.H. 75%) for 60 micron layer thickness:

	Dustdry	Tackfree	Dry
10°C	1 hour	8 hours	1 day
20°C	45 min.	5 hours	16 hours
30°C	30 min.	4 hours	12 hours

- **Theoretical yield:** ± 9,8 m²/L for 60 micron
  ± 6 m²/L for 100 µmicron

  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.

Surface preparation

An appropriate surface preparation is essential to obtain an optimal adhesion and good protection. Each type of surface requires an appropriate preparation.
The surface must be free of all grease, oil, water, dust or other impurities that hamper a good adhesion. Old epoxy or polyurethane surfaces must be roughened up with sandpaper or by light blast sweeping.
In order to avoid problems of interlayer adherence, it is recommended to apply the following coat within 3 days. If this isn't possible, the previous coat has to be roughened up and cleaned before being painted.

For aluminium surfaces: preparation by sanding with scotch brite.

For a new galvanisation (shiny surface) it is recommended to etch with ***Phos-Clean*** and then clean with water.

For an old galvanisation (outdoor exposition longer than 3 weeks) it is recommended:

1. At presence of white salt: rinse with water, with high pressure or with a hard nylon brush

After drying, clean with ***Phos-Clean*** (see technical data sheet) and then with water.

Use

	% Dilution	Thinner	Pressure (bar)	Nozzle
Brush	0-5 %	***Thinner 1***	-	-
Roller	0-5 %	***Thinner 1***	-	-
Pneumatic gun	15-20 %	***Solvatane***	3-5 bar	1.2 - 1.6 mm
Airless gun	Max. 10 %	***Solvatane***	100-300 bar	0.017-0.024 inch

At extreme weather conditions (temperature, humidity, wind) it is advised to use ***Thinner 1*** for dilution.
It is always recommended to apply a stripe-coat at angles, sharp edges, bolds, etc… before the final coat is sprayed on.

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Indicative recoatable times (R.H. 75 %) for spray applications for 60 microns dry layer thickness:

	Minimum	Maximum
10°C	1 hour	4 days
20°C	30 minutes	3 days
30°C	30 minutes	3 days

At longer painting intervals, a good cleaning and roughening up is necessary in order to avoid that interlayer contamination would hamper the adhesion of the next layer.
The minimum recoatable time between 2 layers for rol or brush applications is 12 hours.

Clean the material with ***Solvatane.***
The maximum layer thickness in 1 layers is:
With brush: 80 micron
With airless sprayer: 120 micron

Application conditions

The relative humidity should be no higher than 85 %. During application, the temperature of the surface must be minimum 8°C and at least 3°C higher than dew point. The relative humidity must always be measured in the direct proximity of the object to be painted. The temperature must be measured in the direct proximity of the object but also on the object itself.

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.

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