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## Cryltane AC Primer VHA

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### Description and destination of the product

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Cryltane AC Primer VHA is a two-pack acrylic polyurethane paint with a very good adhesion on steel, aluminium and galvanised surfaces. It also has a good adhesion on wood, MDF, OSB plates, a lot of plastics (hard PVC, ABS, polyester....) and mineral surfaces (walls, floors).

Cryltane AC primer VHA is a good anticorrosion primer based on zinc phosphate and is free of lead and chrome.

The product is easy to apply by brush, roller or sprayer.

Higher layer thickness is no problem.

Undiluted, Cryltane AC Primer VHA can be sprayed as a textured finish on machines, office machinery, and lab equipment. Material defects can easily be smoothed by using this product.

### Type of binder

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

### Type of pigment

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Zinc phosphate, magnesium silicate and colour pigment.

### Colour

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White, black, green and brown-red as standard colours. Thanks to the colour dispenser, other colours are available

### Gloss

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Mat.

## Technical data

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	<i>White</i>	<i>Black</i>	<i>Green</i>	<i>Brown-red</i>
○ <b>Code:</b>	VHA 006	VHA 710	VHA 200	VHA 590
○ <b>Density:</b>	1.45	1.22	1.31	1.37
○ <b>Solids content:</b>				
in weight (± 2) %	73	64	70	70
in volume (± 2) %	55	51	55	55
○ <b>Mixing ratio in volume:</b>	10.5/1	10/1	9/1	8.5/1

Mixing errors result in deviating properties and differences in gloss. Therefore we advise to mix the complete contents of base paint and hardener.

**Mixing ratio in weight:** black, green, brown-red: 92/8 in weight: *hardener BN4*  
white: 94/6 in weight: *hardener BN 467*

- **Potlife:** 5 hours at 23°C
- Indicative drying times (R.H. 75%) for 40 micron layer thickness:

	Dustdry	Tackfree	Dry
10°C	40 minutes	5 hours	1 day
20°C	30 minutes	3 hours	12 hours
30°C	30 minutes	3 hours	8 hours

- **Theoretical yield:** ± 13 m<sup>2</sup>/kg for 40 microns dry  
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

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In order to obtain a good adhesion, the surface must be free of rust, dirt, dust, grease and salts. 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 should be roughened up and cleaned before painting.

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

For old galvanisation (outdoor exposition longer than 3 weeks) the following is recommended:

- When white salt is present: rinse with water, high pressure or with a hard nylon brush
- After drying, clean with *Phos-Clean* (see technical data sheet) and then with water.

## Use

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### 1. For a smooth coat

Depending on the colour, add hardener BN4 or BN467 to the base paint and mix. The mixing ratio is mentioned on the package. The contents of the packages is adapted to the mixing ratio.

Cryltane AC Primer VHA can be applied by brush, roller, pneumatic or airless gun.

	% Dilution	Thinner	Pressure (bar)	Nozzle
Brush	0-5 %	<i>Thinner 1</i>	-	-
Roller	0-5 %	<i>Thinner 1</i>	-	-
Pneumatic gun	5-20 %	<i>Solvatane</i>	3-5 bar	1.2-1.5 mm
Airless gun	0-10 %	<i>Solvatane</i>	100-300 bar	0.017-0.024

At extreme temperatures, humidity circumstances or air stream, *Thinner 1* is recommended for airless gun application. It is always recommended to brush corners, sharp edges, bolts or nuts before applying a flat coat.

Indicative recoatable times (R.H. 75 %) 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 is necessary in order to avoid that interlayer contamination would hamper the adhesion of the next layer. The recommended layer thickness is 60 to 80 microns, depending on the system.

The material can be cleaned with *Solvatane* or *Thinner 1*. In favourable conditions, a maximum layer thickness of 120 microns can be reached.

### 2. For a textured coat

First layer: dilute the paint with *Solvatane* up to  $\pm 30''$  CF4 and apply a smooth layer ( $\pm 20$  % dilution on the mixture).

Second coat: after a short drying time (10-15 minutes), apply the undiluted paint as a structured coat. For the application of textured finishing coats, the use of a spraying gun with paint pressure pot, of which the pressure can be adjusted, is recommended. The lower the spraying pressure at a constant pressure on the pot (between 2-3 atm), the coarser the structured effect. The distance of the pistol and the surface is 30 to 50 cm.

When a structured coat is followed by a smooth coat, the effect will be matter and flatter.  
Materials can be cleaned with *Solvatane*

### **3. As primer on mineral surfaces**

When **Cryltane AC Primer VHA** is applied, after the suitable surface preparation, as primer on mineral surfaces, the product (A + B) must be diluted 10 % with *Thinner 1* before applying. Possible following layers must be diluted only 5 %.

Remark: when the surface is poly concrete, the surface must always be track blasted before overcoating with **Cryltane AC Primer VHA**.

## **Application conditions**

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The relative humidity should be no higher than 85 % and the temperature should be at least 8°C. During application, the temperature of the surface must be at least 3°C higher than dew point. Temperature and relative humidity should be measured as close as possible to the surface to be painted.

## **Storage stability**

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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**

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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.com](http://www.libertpaints.com)*

### **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.*