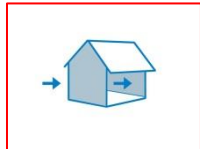


CapaLac Red Oxide Primer

Alkyd Based High Quality Lead-Free Anti-Corrosive Quick Drying Primer
For Interior And Exterior

Product Description

CapaLac Red Oxide Primer is high quality, lead-free, rust inhibitive, solvent based alkyd primer for **CapaLac Enamel** coatings especially on metal, steel and iron surfaces. **CapaLac Red Oxide Primer** exhibits good flow and dries quickly. The use of a special synthetic resin combination with active anti-corrosion pigments gives the product additional rust-inhibitive properties, which ensure his excellent protection against corrosion on steel and iron. It seals the surface and promotes adhesion of the subsequent finish coats.



Recommended Use

CapaLac Red Oxide Primer is suitable for interior and exterior use on:

De-rusted metal, steel and iron

Definition of Application Areas

Suitability according to Caparol Technical Advice Sheet No. 0606

Interior 1	Interior 2	Interior 3	Exterior 1	Exterior 2
o	o	o	+	+
(-) inapplicable / (o) of limited suitability / (+) suitable				

Physical Properties

Volume solids	48±2%
Colour*	Reddish brown
VOC	369 g/litre
Thinner/Cleaner	Alkyd thinner
Finish	Matt
Packing size	3.75 & 18 litres
Shelf life	12 months

Advantages

- Excellent adhesion too de-rusted steel, iron and metal substrates
- Fully-fledged anti-corrosive and rust inhibitive primer
- Good hiding and opacity
- Easy to apply with superior flow and levelling
- High weather resistance

Certificates and Test Values*

DCLD Product Conformity certified

ESMA ECAS GREEN LABEL 5 Star Environmental Efficiency Rating certified

Abu Dhabi Quality and Conformity Council Conformity certified

ADCE certified civil supplier

*Additional certificates and approvals may available on request or could be arranged if required.

Technical Information No. 0119 – Issue: April 2020

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Surface Preparation

In general the substrate must be even, clean, dry, solid, sound/stable, and free from all substances that may prevent adhesion. Remove unsound coatings of enamels, dispersion paints, synthetic renders/plasters and unsound mineral paint coatings. Clean sound, adherent paint coatings dry or wet. Clean surfaces with organic growth (moss, algae and mild) by high pressure water jet in compliance with the regulations. Allow drying thoroughly. Clean surfaces soiled with industrial gases or soot by high pressure water jet and suitable cleaners in compliance with the regulations. Adjust the substrate evenness of the planned, finer surface finish. If necessary, carry out additional substrate levelling measures. Check existing coatings for their load-bearing capacity. Remove any non-load bearing or structurally weak coatings. Any damaged areas or surface irregularities should be repaired before application. Repairs must be well set and dried out. Damp or not fully cured substrates can lead to defects in subsequent coats, such as blistering or cracks.

Metal, Iron, Steel:

De-rust according to industry standard SA 2 ½ (blasting) or ST3 (mechanically) according to DIN EN ISO 12 944-4.

Prime all surfaces with a suitable and recommended primer before coating. It is most important that substrates are correctly prepared prior to application of paint.

Mixing Paint

CapaLac Red Oxide Primer is a single component solvent based product, should be mixed properly before application. Material can be diluted with alkyd thinner only. Stir **CapaLac Red Oxide Primer** with a low-speed stainless steel agitator. Do not use mixers made of aluminium - danger of discolouration. Use as little Alkyd thinner as possible to achieve application consistency. Stir well before application. If necessary adjust to working consistency with Alkyd thinner up to max. 10 %. Diluting the material too much will make application more difficult and will result in poorer characteristics. It's strongly recommend to use the thinned enamel in same shift and not to store for longer time as there are might chances of paint losing its characteristic's, settling, formation and chances of bacterial contamination from external sources. Hence recommended to estimate enamel required for the shift and mix accordingly to avoid any problems.

Film Thickness and Spreading Rate*

	Minimum	Typical	Maximum	
Wet film thickness	62.5	72.3	83.3	µm
Dry film thickness	30	35	40	µm
Theoretical spreading rate	16.0	13.7	12.0	m ² /litre

*Indicated rates are indicative per coat, due allowance and wastage factor should be considered in practical application. This indication does not take into account usage for spilling or loss on site. The figure may also vary according to substrate or application conditions. The exact rate of consumption for your particular project is best established by a trial application on site and executed by your desired applicator.

Drying Time*

Substrate temperature	10°C	25°C	40°C	
Touch dry	4	2	1	h
Dry to over coat	24	12	6	h
Ready for stress	96	48	24	h

* Drying time generally related to air circulation, temperature, film thickness, no of coats and relative humidity. The given data must be considered as guidelines per coat only. The actual drying time before recoating may be shorter or longer, depending on film thickness, ventilation, humidity, underlying paint system, requirement for early handling and mechanical strength etc. The figures given are typical with: Good ventilation (outdoor exposure or free circulation of air), typical film thickness, on coat on top of inert substrate and relative humidity 70%.

Application Conditions

Substrate temperature should be min.5°C and at least 3°C above the dew point of the air. Suitable processing temperature should between + 5 °C to approx. 40 °C for material, substrate, water and ambient air during application and curing. At application below 10°C drying temperature will be significantly extended and spraying characteristics may be impaired. Paint to be applied to suitable primed surface.

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Do not apply during strong wind, fog, high relative humidity, and imminent rain or frost. Do not apply or leave to dry in direct sunlight as this can lead to differences in gloss levels and even to slight cloudiness.

Application Equipment's/Tools

Enamel paint brush, enamel roller or airless spraying equipment*

Guiding data airless spray

Pressure at nozzle 150 - 180 bars

Nozzle tip 0.023" - 0.028"

Spray angle 25° - 65°

*The airless spray details given above are intended as a guide only, fluid hose-length, diameter, paint temperature and project complexity all influence the choice of tip and operating pressure.

Cleaning Tools

Clean tools immediately with **Alkyd Thinner** after application.

Typical Application Procedure*

Apply **CapaLac Red Oxide Primer** with suitable enamel paint brush, enamel roller or airless spraying equipment homogeneously to the complete surface onto suitable prepared substrate. Apply thoroughly a uniform and even layer. Avoid overlapping that may be caused by stories of scaffolding. To avoid lapping on large area surfaces, care should be taken to have a sufficient number of hands/craftsmen on the job and to apply the material wet-on-wet without interruption.

* For system specific application instructions please refer to detailed MS (method statement) or specification.

Typical Paint System*

CapaLac Red Oxide Primer can be used on suitable interior and exterior surfaces as follows:

Standard enamel system for de-rusted steel, metal and iron surfaces*

	Coats
CapaLac Red Oxide Primer	1
CapaLac Enamel (Matt, Semi-gloss or Gloss as desired)	2

* Above mentioned paint system is for general guide line only, can be changed as per specification requirements. As it is impossible to list herein the wide variety of substrates and their specific problems, please request our technical assistance in case of queries. We will provide appropriate working methods.

Important Note

We use natural raw materials in our products, which mean that the stated values can vary slightly in the same delivery batch; this does not affect the suitability of the product for its intended purpose. Being natural products, the materials used in the paint finishes, may occasionally cause slight colour variation in the finished coating. Use only material marked with identical batch numbers or, if utilizing material from different batches, mix the entire quantity needed in advance. As usual for paints, **CapaLac Red Oxide Primer** must not be applied in direct sunlight or on sun heated surfaces, during strong wind, fog or rain, high relative humidity, imminent rain or impending night frost. Apply wet-on-wet and without interruption to avoid lapping. Stir the material thoroughly in case of airless spray application. Joints in the vicinity of windows, doors and window sills must be sealed in a technically correct manner with permanently elastic sealing compound. Do not mix with other products. Touching up surfaces is depending on many parameters and may be visible after drying.

Please note: It is recommended to use trained and experienced applicator to carry out painting works.

Colour Stability

Due to weathering, and in particular due to the intensity of UV radiation and the effect of humidity, the surface of coatings changes over time. This might result in minimal visible changes in colour. At the same time, it is a process which is influenced by substrate and environment conditions. This does not impair the quality and the functionality of the product.

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When coated surfaces are exposed to mechanical stress it is possible that, due to the natural calibration grains used for darker, more intense colour shades, the areas of impact change to a lighter colour. This does not affect the quality and functionality of the product. It is not possible to give warranty for uniform colour accuracy and freedom from stains due to chemical and/or physical curing processes and fluctuations in the weather and different substrate conditions, e.g. uneven absorption behavior of the substrate, different substrate moisture levels over the entire the surface, partially very different alkalinity/substances from the substrate, direct solar radiation with sharply delineated shadowing on the freshly applied coating.

Storage and Handling

12 months when stored in warehouse conditions below 35°C in the original, unopened packs. The product must be kept in in cool, dry well ventilated space and away from source of heat and ignition. Containers must be kept tightly closed and always handle with care. Keep out of reach of children.

Health and Safety

Material can causes serious eye damage. May it cause drowsiness or dizziness. Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Take precautionary measures against static discharge. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area. Avoid release to the environment. IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Do NOT induce vomiting. IF ON SKIN: Gently wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Get medical advice/ attention. Store the material in a well-ventilated place. Keep cool. Do not use or store by hanging on a hook.

Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local authorities. Do not allow product to enter into wadis, waterways, drains, watercourses and soil. Only completely emptied containers should be given for recycling. Material safety data sheet (MSDS) available on request.

Please also always refer to:

Caparol Technical Advice Sheet No. 0606 Definition of Application Areas

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