

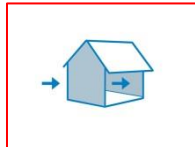
CapaEpo Zinc Phosphate Primer

2 Component Solvent Based Epoxy Primer For Metal, Steel And Galvanized Steel For Exterior And Interior



Product Description

CapaEpo Zinc Phosphate Primer is a premium quality two pack polyamides cured solvent based epoxy primer with zinc phosphate for priming coats on iron, steel and galvanized steel. It is anti-corrosive, rust-inhibitive and lead-free and suitable for exterior surfaces. It has excellent opacity, good flow and promotes adhesion of subsequent Caparol epoxy or polyurethane finish coats. **CapaEpo Zinc Phosphate Primer** is not suitable on ETICS/EIFS, cladding systems or other surfaces which are built with EPS/XPS or PVC materials.



Recommended Use

CapaEpo Zinc Phosphate Primer for exterior use on suitable prepared surfaces on:

- Steel, metal and galvanized surfaces
- Suitable primed wood
- Suitable prepared old epoxy coatings

Unsuitable are substrates made of plastic or PVC. Not suitable for horizontal or sloping surfaces subject to weathering.

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	White / Grey / Red-Oxide
Flash point	> 25°C
VOC	360 g/litre
Thinner/Cleaner	Epoxy thinner
Finish	Matt
Packing size	3.75 & 18 litres
Shelf life	6 months
Pot life	4 hours @25°C
Mixing ratio	4 part base: 1.0 part hardener by volume

Advantages

- Excellent adhesion
- Anti-corrosive
- Rust-inhibitive
- Lead-free
- Good flow

Technical Information No. 0100 – Issue: April 2020

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Certificates and Test Values*

ADCE certified civil supplier

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

Surface Preparation

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.

It is most important that substrates are correctly prepared prior to application of paint.

Mixing Paint

CapaEpo Zinc Phosphate Primer is two component solvent based products. The material must be mixed properly before application. The material can be diluted with **Epoxy Thinner** only. Stir **CapaEpo Zinc Phosphate Primer** with a low-speed stainless steel agitator. Do not use mixers made of aluminium - danger of discolouration. Use as little **Epoxy Thinner** as possible to achieve application consistency. Stir well before application.

If necessary adjust to working consistency with **Epoxy Thinner** up to max. 10 %. Ensure short stirring times at low speed to prevent foam formation in the binding agent. Diluting the material too much will make application more difficult and will result in poorer characteristics. It's strongly recommend to use the thinned paint in same shift and not to store for next day 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 paint required for the shift and mix accordingly to avoid any problems.

Film Thickness and Spreading Rate*

	Minimum	Typical	Maximum	
Wet film thickness	125	146	167	µm
Dry film thickness	60	70	80	µm
Theoretical spreading rate	8.0	6.9	6.0	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	8	4	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%.

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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 be 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.

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

The material can apply by solvent resistant roller, brush or spraying coating tools.

Clean tools immediately with Epoxy thinner after application.

Guiding data for airless spray equipment*

Spraying angle: 25°- 65°

Nozzle size: 0.023" - 0.028"

Pressure: 150 - 180 bars

*The 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. Always check to ensure that filter is clean.

Typical Application Procedure*

Apply **CapaEpo Zinc Phosphate Primer** with suitable roller, brush or airless spraying equipment homogeneously to the complete surface.

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*

CapaEpo Zinc Phosphate Primer can be used on suitable exterior and interior surfaces as follows:

Exterior/interior surface standard typical paint system

	Coats
CapaEpo Zinc Phosphate Primer	1-2
CapaEpo Top	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

The characteristic values stated are average values or approx. values. 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 such materials, **CapaEpo Zinc Phosphate 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. Statically (structural/constructional) cracks may be subject to extreme movements.

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Therefore a durable and invisible crack bridging treatment by paint products is impossible. 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

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

6 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/ vapours/ 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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