

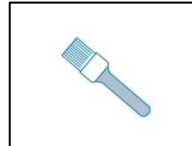
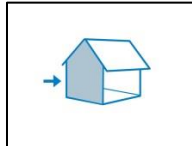
Metallocryl Exterior

High Grade Silver Satin-Gloss Effect Emulsion Paint With A Metallic Appearance For Exterior



Product Description

Metallocryl Exterior is a premium quality, satin-finished water based paint with metallic effect for high-quality, weather-resistant effect coating on textured exterior surfaces, when used in combination with an intermediate coat of **Amphibolin** Low-Sheen in the same colour shade as **Metallocryl Exterior**. Individual and attractive surfaces are achievable with different application techniques.



Recommended Use

Metallocryl Exterior is suitable for exterior use on walls and ceilings on:

Textured render/plaster coatings
Textured emulsion coatings

Unsuitable are substrates showing efflorescence and substrates made of plastic, metal or wood.

Definition of Application Areas

Suitability according to Caparol Technical Advice Sheet No. 0606

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

Physical Properties

Volume solids 36±2%

Colour* Metallic silver (approx. RAL 9006)

Metallocryl Exterior has to be tinted in selected colour shades via the ColorExpress tinting & mixing machine system according to Caparol special colour collection/scheme "CD-Metallocryl". The same also applies to a necessary intermediate coat of Amphibolin, tinted in a colour shade as scheduled. Colour shades may vary as compared with original colours, due to their metallic character. Thus a test application on site is advisable.

Check tinted product before applying to avoid colour deviation. Always use tinted paint of same batch, when applying on seamless surfaces. Important: Metallocryl Exterior can only be applied in tinted form.

VOC 1.7 g/litre

Thinner/Cleaner Potable clean water

Finish Satin-gloss/satin-finished (mid-sheen)

Packing size 5 & 10 litres

Shelf life 12 months

*Product can be tinted on CAPAROL tinting express system and made available instantly. Tinting may cause variations in the technical characteristics.

Design Note

Metallic-effect coatings are materials which use small metallic particles, which are highly influenced by colour shade, absorbency and condition of the existing substrate, furthermore by the film thickness of metallic-effect coat and degree of dilution, tools used and individual application technique of the applicator. Therefore a trial application (test area/mock-up/specimen) on site is essential. It is very important to follow strictly related painting system.

Technical Information No. 0069 – Issue: August 2019

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Advantages

Excellent working properties and weather-resistant

Pronounced (strong) metallic effect shades can be tinted per Caparol Colour Collection

Water-thin able, ecologically compatible and low odour

Provided with a preservative against deterioration in the coating film due to algae and fungal attack

Certificates and Test Values*

Fire behaviour classification per German standard DIN 4102: A2 (non-combustible)

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.

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. Treat the surfaces with **CapaTox** and 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

Metallocryl Exterior is single component water based product, should be mixed properly before application. The material can be diluted with potable clean water only. Stir **Metallocryl Exterior** with a low-speed stainless steel agitator. Do not use mixers made of aluminium - danger of discolouration. Use as little water as possible to achieve application consistency. Stir well before application. If necessary adjust to working consistency with tap water up to max. 5 %. 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 (e.g. hiding power, colour shade). 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	111	125	139	µm
Dry film thickness	40	45	50	µm
Theoretical spreading rate	9.0	8.0	7.2	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.

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Drying Time*

Substrate temperature	10°C	25°C	40°C	
Touch dry	4	2	1	h
Dry to over coat	8	4	2	h
Ready for stress	96	48	24	h

*The material cures physically by evaporation of water. 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 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

Manually application recommended by medium paint roller, with pile height 12-16mm (only advisable for coarser textured renders), different types of paint brushes, stippling brush or our special ArteTwin trowel. Tool selection depends on the desired application technique and required design.

Typical Application Procedure*

Depending on the type and condition of the substrate, it may be necessary to apply consolidating, absorbency-regulating prime coatings. On suitable mineral substrate it is usually necessary to apply an absorbency-equalizing and adhesion promoting prime coat with **CapaPutz Primer**.

Apply intermediate coat of **Amphibolin Low-sheen** (tinted as per desired **Metallocryl Exterior** finish color shade) to suitably prepared substrates. Apply one intermediate coat in desired colour shade very thoroughly to obtain a proper surface with an even and uniform opacity. Visible lapping or paint roller marks must be avoided. May they cannot be masked by a metallic-effect coat of **Metallocryl Exterior**. Therefor brush application is common and recommended for applying priming and intermediate coats to avoid roller marks.

Allow thorough drying of priming/intermediate coats before further application. Apply two metallic-effect coats of **Metallocryl Exterior**, as per desired design. Apply with tool(s) as selected to achieve the desired metallic-effect technique to the complete surface and immediately treat the material as per desired design.

In order to ensure a uniform orientation of effect pigmentation (aluminum mica), apply the product evenly, spread crosswise and then roll in one direction.

Highly appealing surfaces are achievable on smooth/even substrates, when **Metallocryl Exterior** is evenly roller applied and then directly treated (crosswise) with an oval brush or using the special ArteTwin trowel.

Smooth/even, fine-textured substrates and surfaces with adverse lighting conditions (grazing light) cannot be coated without leaving noticeable roller marks or a slightly "cloudy" appearance (blushing). Spray application may lead to a clouding effect (blushing) and uneven gloss level due to spray mist, and is therefore not suggested.

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.

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Typical Paint System*

Metallocryl Exterior can be used on suitable exterior surfaces as follows:

Exterior surface standard typical paint system

	Coats
CapaPutz Primer	1
Amphibolin Low-sheen (tinted as per desired Metallocryl Exterior finish color shade)	1
Metallocryl Exterior (normally undiluted, applied as per required design)	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 granular 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, **Metallocryl Exterior** paint system must not be applied in direct sunlight or on sun heated surfaces and high relative humidity. Apply wet-on-wet and without interruption to avoid lapping. Do not apply on horizontal surfaces exposed to moisture. Do not apply on calcareous (high lime) substrates and lightweight renders/plasters.

In case of moist conditions yellowish transparent traces of additives, showing a slightly glossy shine and stickiness, may occur on the surface of compact, cool substrates or by means of delayed drying caused by surrounding conditions. The traces of additives (Emulsifier washouts) are water-soluble and will disappear under the influence of a sufficient water quantity, e.g. washing by water. The quality of the dried coating will not be affected by these changes. In case of direct reworking, all traces of additives must be pre-wetted and completely removed after a short reaction time. An additional priming coat of **CapaAcryl Primer** must be applied. The traces cannot occur when the material is applied under suitable climatic conditions. This does not constitute an impairment of product quality.

Statically (structural/constructional) cracks may be subject to extreme movements. 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.

Metallocryl Exterior provided with a preservative against deterioration in the coating film due to algal/fungal attack and offers a long-lasting protection, but the anti-algaecide & fungicidal effect is limited by the special conditions, e.g. intensity of attack and moisture loads. Thus, a durable protection cannot be guaranteed.

Mechanical loads on matt façade paints or coatings in dark shades may produce bright-toned stripes as a product specific property (no writing resistance).

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 the intensity of UV radiation and the effect of humidity, the surface of coatings changes over time. This can result in 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.

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.

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For Exterior



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

Always ensure good ventilation during application and drying. Do not eat, drink or smoke while using the product. Do not breathe vapors or spray when applying paint indoor by spray, wear proper air supplied breathing equipment's. Respiratory equipment's must be suitable for the purpose and meet appropriate standards. When applying paint, it is advisable to wear suitable eye protection, in case contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove splashes from skin, use soap and water or recognized skin cleaner. 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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