

Caparol Spray Plaster FinishCoat

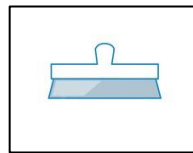
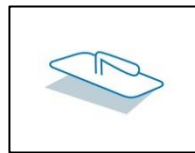
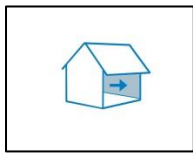
Ready-Mix, Paste-Like, Synthetic-Resin Dispersion Filler/Skim-Coat, Fine For Interior



Product Description

Caparol Spray Plaster FinishCoat is a pre-mix acrylic-copolymer based, all-purpose filler/skim coat, which is suitable for efficient repairing minor defects, shrinkage holes, small surface cracks and to rectify small irregularities. **Caparol Spray Plaster FinishCoat** it's for use as a finishing coat over **Caparol Spray Plaster BaseCoat** or **Caparol Spray Plaster MidCoat**, applied as a thin layer. It is also suitable as a surfacer to achieve smooth plaster and concrete surfaces; and for levelling and equalizing unevenly textured fine render/plaster coatings or concrete. Also suitable to achieve finely textured surfaces using spatter effect technique on smooth, filler treated walls and ceilings. When used for finishing ceilings, the final coat may be left spray textured, in which case no further decoration is required. Surfaces leveled with **Caparol Spray Plaster FinishCoat** can be coated, when fully cured/dried, with suitable Caparol emulsion and latex paints or acrylic enamels, may be without previous priming. **Caparol Spray Plaster FinishCoat** is not suitable to be use on EIFS/ETICS.

Maximum coating/layer thickness per work step: 0.6 mm



Recommended Use

Without priming coat suitable for:

Cement plastered walls and ceilings, hollow concrete blocks, concrete and precast concrete as well rendered fair-faced and levelled brick masonry

With necessary priming coat particularly suitable for:

ACC/cellular concrete
Sandwich-type plasterboards
Stable existing coatings
Fibrous cement sheets

Not suitable for damp locations or on uncovered and open exterior surface areas, e.g. facades!

For damp locations it's recommended to use **Capatect ArmaReno 700** or other suitable mineral based plaster/filler.

For open exterior surface areas we recommend to us **CapaFilex** or suitable mineral based plaster/filler.

Definition of Application Areas

Suitability according to Caparol Technical Advice Sheet No. 0606

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

Physical Properties

Volume Solids	53±2%
Particle Size	Maximum 0.3 mm
VOC	6.3 g/litre
Specific Gravity	1.8 g/cm ³
Colour/Gloss	White / matt
Finish	Fine - smooth & texture, depending to preferred design
Thinner/Cleaner	Potable clean water
Packing Size	25 kg PE bag (sturdy bag)
Shelf Life	6 months

Technical Information No. 0104 – Issue: May 2020

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Advantages

- Water-dilute able, ecologically compatible
- Low odour, non-toxic, emission-minimised and solvent-free
- Excellent adhesive strength with high coverage
- Rigid/stiff, when thoroughly cured
- Non-shrinking, low-sagging and do not flake off
- Can be sanded in dry condition and felted in wet condition
- Quick drying and diffusion-capable
- Non-flammable
- Ready to use
- Easy to apply and easily sand able

Certification 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.

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. In case the material will be use on concrete ceilings as joint leveller/filler, it's strongly advised to prime the areas with **CapaPrime** or **CapaAcryl Primer**. Also all prefabricated concrete panels which maybe need to be coated by **Caparol Spray Plaster FinishCoat** need to be primed at first. It is most important that substrates are correctly prepared prior to application of **Caparol Spray Plaster FinishCoat**.

Mixing Paint

Caparol Spray Plaster FinishCoat is single component water based product, should be mixed properly before application. The material can be diluted with potable clean water only. Stir **Caparol Spray Plaster FinishCoat** 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. For machine application the amount of water added depends on the requirement of the respective machine/pump. If necessary adjust to working consistency with tap water up to max. 10 % or less as required achieving the desired viscosity and/or texture. Ensure short stirring times at low speed to prevent foam formation in the binding agent. Foam formation can have an impact on wet adhesion with significantly lower consumption, and hence due to the lower paint density, can cause the substrate to shine through. This, in turn, leads to patchy and inhomogeneous drying of the paint layer.

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Diluting the material too much will make application more difficult and will result in poorer characteristics (e.g. hiding power, etc.). 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 Consumption Rate (depending on surface condition and necessary layer thickness)*

	Minimum	Typical	Maximum	
Wet film thickness	565	850	1130	µm (Depending on the surface)
Dry film thickness	300	450	600	µm (Depending on the surface)
Consumption rate (Levelling, Smooth)	Approx. 1.8 kg/m ² /mm of coating thickness			(Depending on the surface)
Consumption rate (Spatter Effect)	Approx. 0.5 to 0.8 kg/m ² /mm of coating thickness, as per desired texture			

*Indicated rates per coat are indicative, 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 (depending on surface condition and necessary layer thickness)*

Substrate temperature	10°C	25°C	40°C	
Touch dry	4	2	1	h
Dry to over coat	16	8	4	h
Ready for stress	48	24	12	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 only per coat. 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. 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

Spray Plaster FinishCoat it's recommended to be applied with plaster conveyor and high-performance airless equipment. Remove all filters, when airless guns are used. Use spray guns with a higher discharge, recommended by the manufacturer.

Nozzle size:	4 to 5mm
Pressure:	Approx. 120 to 140 bar
Compressor capacity:	min. 200 Liters

Manual application also can be done if required. Use for smooth surface application trowel, steel edged spatula, scrapper, and scrubber and putty knife. It is recommended to use trained and experienced applicator to carry out spray plaster works.

Teamwork and Output

A team may comprise of 2 to 3 persons: 1 man handling the spray gun, applying an even coat; 1 man treating the surface evenly and working with smoothing tools; 1 man feeds the spray gun. Daily application rates per 3 man team are approx. 600 m² by spray and 150 m² by hand.

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Tool Cleaning

Clean tools/equipment immediately after use with clean water.

Typical Paint System*

Caparol Spray Plaster FinishCoat use on suitable interior surfaces as follows:

Interior surface standard typical paint system

	Coats
<i>Primer coat (optional, but it depends to substrate condition if it will be necessary)</i>	(1)
Caparol Spray Plaster BaseCoat (joint filler only)	1
Caparol Spray Plaster MidCoat	1
Caparol Spray Plaster FinishCoat	1
<i>Water based Primer coat (for normal emulsion paints optional, but for anti-carbonation and flexible paint systems one priming coat with CapaAcryl Primer is strongly recommended as well if Spray Plaster FinishCoat with spatter technique will be used without top coat)</i>	(1)
<i>Water based Top coat (necessary, optional for Caparol Spray Plaster FinishCoat with spatter technique on ceiling)</i>	2

If the substrate is in good condition and doesn't need to be leveled, then only joint filling with **Caparol Spray Plaster BaseCoat** can be enough, before **Caparol Spray Plaster MidCoat** and/or **Caparol Spray Plaster FinishCoat** will be applied (as per requirements).

*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.

Typical Application Procedure*

Spray application of undiluted or less diluted **Caparol Spray Plaster FinishCoat** liberally applied to the full surface. Thereafter smooth the surface directly with suitable stainless steel trowel. After drying, **Caparol Spray Plaster FinishCoat** can be smoothed with a felt board in wet condition or by dry sanding. Sand/abrade the surface smooth with 220 grit abrasive paper and de-dust the surface before re-coating. Allow surface to fully dry for minimum 8 hours, and if necessary repeat the 2nd coat to achieve good opacity and smoothness with same application method.

After thorough drying the smooth surface may be spattered with **Caparol Spray Plaster FinishCoat** according to the desired texture (finely textured up to roughly textured). The texture may be varied by the nozzle size and degree of dilution. On highly smooth concrete ceilings, free of burrs and shrinkage holes, a covering coat of material can be applied in spattering technique without previous smoothing.

Do not use thick layers or excessive layers to cover surface undulations. It is suggested to use appropriate cementations mortar to rectify such defects.

Optimum coating thickness: 0.3 - 0.45 mm. Coating thickness per work step: up to max. 0.6 mm.

Prime repaired areas before any further treatment according to the intended material system

Apply thoroughly a uniform layer during application and 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.

Special Advice for Surface Smoothing and Spraying (Spatter Technique)

In large rooms the application should start by spraying and smoothing the ceiling and the upper part of walls down to a height easily reached from the floor, before spraying and smoothing the lower part of walls.

After smoothing, when the material begins to set, corners should be touched up with a wet radiator brush. Allow to dry and touch up remaining air pockets and blisters.

If rusty spots reappear on the surface, then they must be insulated by stippling the thoroughly dry surface with suitable anticorrosive primer, e.g. **CapaEpo Zinc Phosphate Primer**.

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Recoat Ability

Surfaces leveled with **Caparol Spray Plaster FinishCoat** can be coated, when fully cured/dried, with suitable water based Caparol emulsion and latex paints or acrylic enamels without previous priming. Apply one priming coat of **CapaPrime/CapaAcryl Primer** before applying plastic compounds or textile and glass fabric wall coverings. Apply one priming coat of **CapaPutz Primer/CapaStone Primer** before applying synthetic resin-bound (organic) plasters/stone finishes.

Important Note

The characteristic values stated are average values or approx. values. Slight colour differences may occur due to the use of natural fillers. If the surface will remain unpainted after spray application (spatter technique), then it is suggested to use material of same batch for filling and spray application. The surface smoothness profile is influenced by the chosen tool; hence always the same type of smoothing tool should be used. **Caparol Spray Plaster FinishCoat** is unsuitable for damp locations and application on horizontal surfaces exposed to rain or moisture.

Abrasion can occur if using plaster conveyor equipment, particularly when new conveyor screws and tubes are used. Please follow the instructions given by the relative manufacturers.

For spray application on wall areas in spatter technique, recoating with suitable Caparol paints is advisable to obtain a higher resistance.

Fine blistering may appear on compact, low absorbent substrates. This can be removed by repeated smoothing after having allowed flashing off for a short time. The proper timing for re-smoothing depends on temperature and air moisture on site. When small blisters recur, even after re-smoothing, the smoothing process which obviously had been made too early must be repeated. On roughly textured substrates an additional smoothing process may be necessary.

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 texture coat works.

Colour Stability

The natural graining of the used small grains can become partially visible and appear may be as little darker grains in the filler. Those effects are due to the basic appearance of a grain filled material and attest to the natural properties of the raw materials used. This does not impair the quality and the functionality of the product.

It is not possible to give warranty for uniform white colour 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 filler.

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, sunlight and ignition. 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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