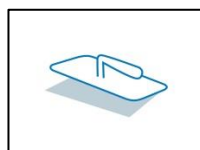
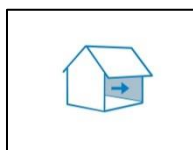


Product Description

Makhmalia is premium quality water based interior decorative paint designed to achieve royal velvet effects with a pearlescent appearance to the surface. Makhmalia is inspired by smooth and sleek fabrics to drape your walls with luxurious velvet finish. The perfect combined coating system of priming, stucco, intermediate and finishing coat provide you excellent application properties to realize impressive surfaces with a high load capacity. The Makhmalia collection of elegant colour shades offers you a wide choice to add velvety goodness to your living environment. Makhmalia is easy to clean and to maintain.

**Recommended Use**

Suitable for interior use on walls and ceilings on:

Concrete
Plastered walls
Sound existing or new paint coatings
Gypsum boards
Design boards
Render/plaster coatings

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

Definition of Application Areas

Suitability according to Caparol Technical Information No. 0606

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

Physical Properties

Volume solids	42±2%
Colour*	22 colour shades as per Caparol Makhmalia Collection Check tinted product before applying to avoid colour deviation. Always use tinted paint of same batch, when applying on seamless surfaces.
VOC	1.7 g/litre
Thinner/Cleaner	Potable clean water
Finish	Pearlescent-Silk
Packing size	0.9 & 3.5 litres
Shelf life	24 months

Design Note

Pearlescent-effect coatings are materials which use small pearlescent-effect particles, which are highly influenced by colour shade, absorbency and condition of the existing substrate, furthermore by the film thickness of pearlescent-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.

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Advantages

- Excellent working properties
- Prestigious pearlescent-effect
- Low odour and optimum wet open time to create the design
- Excellent hiding power
- Superior wash ability and easy to clean

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.

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

Makhmalia is single component water based product, should be mixed properly before application. The material can be diluted with potable clean water only. Stir Makhmalia 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 intermediate coat Makhmalia can be applied by roller and should be diluted with clean water up to max. 50%. As top coat Makhmalia should be use undiluted. 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	95	107	119	µm
Dry film thickness	40	45	50	µm
Theoretical spreading rate	10.5	9.3	8.4	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 paint roller, PVC trowel (recommended to use "Arte Twin Trowel") or PVC roller. 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 CapaPrime.

Apply intermediate coat of suitable emulsion paint, e.g. CapaPlus Matt (tinted as same as the desired colour shade of Makhmalia), diluted 40% to up to max. 50% with tap water on to suitably prepared substrates. Apply intermediate coat by using roller very thoroughly to obtain a proper surface with an even and uniform opacity. Visible lapping or paint roller marks must be avoided.

Allow thorough drying of priming/intermediate coats at least for 4 hours before further application. Then apply two pearlescent-effect coats of Makhmalia, as per desired design. Apply first coat of chosen color of Makhmalia, diluted 30% to up to max. 40% with tap water by roller and allow it to dry. After 4 hours apply a second coat of Makhmalia undiluted by roller and make design with a plastic trowel (recommended to use special PVC trowel "Arte Twin Trowel") create a design as per requirement moving on wet surface in a globular manner to enhance the luster and design effect.

Apply approximately 1 m² of the surface with regular and repeated movements. Continue the application once the area is completed. 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*

Makhmalia can be used on suitable interior surfaces as follows:

Interior surface standard typical paint system

	Coats
CapaPrime	1
CapaPlus Matt (tinted as same as the desired colour shade of Makhmalia)	1
Makhmalia (applied as per desired colour shade and 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.

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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 interior paints, Makhmalia 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.

Walls and ceilings in special climatic conditions (high degree of moisture) or subjected to a higher influence of atmospheric exposure: Therefor a top coat of our special product DecoLasur is advisable.

Mechanical loads on matt interior 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.

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

24 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.

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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:

TDS No. 0606 Definition of Application Areas

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