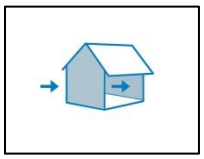
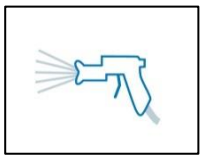
Technical Data Sheet

CapaStone CeraTile

Pure Acrylic Water Based Decorative Natural Stone Like Finish Texture Paint For Interior And Exterior

Product Description

CapaStone CeraTile is premium quality pure acrylic water based decorative natural stone like finish texture paint to achieve a small stone spattered design. **CapaStone CeraTile** texture coating consisting of crushed inorganic colored aggregates bound with pure acrylic resin binder. **CapaStone CeraTile** using small stones to achieved a distinctive slightly rough effect. **CapaStone CeraTile** is suitable as finishing coating for EIFS/ETICS.


Recommended Use

CapaStone CeraTile is suitable for interior and exterior use on walls and ceilings on:

Cement plastered walls
Gypsum boards
Uncoated concrete
Sound existing mineral plaster coatings
Rendered fair faced brick masonry

Unsuitable are substrates showing efflorescence and substrates made of plastic or wood. 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	–	+	+
(–) inapplicable / (o) of limited suitability / (+) suitable				

Physical Properties

Volume solids	68±2%
Colour	Factory-mixed as per Caparol CapaStone catalogue standard colours and maybe in custom colours on request. Note: Minor colour deviations caused by the use of natural stone granular material are possible in different batches. Therefore, only use **CapaStone CeraTile** from the same batch number for continuous surfaces. Mix the last few pails from one batch with a different batch to minimise any colour differences. Always use material of same batch, when applying on seamless surfaces.
VOC	0.37 g/litres
Thinner/Cleaner	Potable clean water
Finish	Matt
Packing size	5 & 23 kg
Shelf life	12 months

Advantages

Environment friendly

Easy to apply and ready to use

Practically odourless

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Weatherproof and breathable

Repels water and resists wind-driven rain

Seals existing, non-moving hairline cracks

High resistant to atmospheric pollution

Good shock and impact resistant

Excellent application properties

Guarantee high substrate protection

High UV resistance

Provide high performance durability

Abrasion resistant

Reduces maintenance and recoating

Provides an aesthetically pleasing surface colour and texture

Safe, non-toxic, clean up easily with soap and water

Certificates and Test Values*

Liquid water permeability corresponds to class W_2 as per EN 1062-1 Value≤0.5/kg/m²/h0.5

Adhesion to concrete >0.8 N/mm² as per EN 1504-2

High water permeability corresponds to class V_2 as per EN1062-1 Value>15g/m²/d

UV stable after 2000hrs of accelerated weathering according to EN ISO 11507

Class A tested and certified as per ASTM E84

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, permanently dry, solid, sound/stable, and free from inclusions, loose particles and all separating materials that may prevent adhesion. Remove unsound coatings of enamels, dispersion paints, synthetic renders/plasters and unsound mineral paint coatings. Concrete and plaster surfaces with dirt deposits or fines/sintered layer must be cleaned mechanically or with high-pressure cleaner, in compliance with the regulations.

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. Verify substrate is flat, free of fins or any vertical and horizontal irregularities greater than 8mm in 5m length (pro rata tolerance is applicable for walls less than 5 m long). 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.

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Mixing Paint

CapaStone CeraTile is single component water based product, should be mixed properly before application. The material can be diluted with potable clean water only.

Stir **CapaStone CeraTile** 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 spraying equipment. If necessary adjust to working consistency with tap water (max. 5 % or less as required to achieve the desired 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.

As a rule, in case of strong colour shades less water needs to be added to achieve the optimum application consistency.

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	740	810	880	µm
Dry film thickness	500	550	600	µm
Theoretical spreading rate	0.9	0.8	0.7	m^2/kg

*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	8	4	2	h
Dry to over coat	32	16	8	h
Ready for stress	192	96	48	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 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*

Machine application with a hopper gun or commonly-available paint spray machines for textured paints or other suitable spraying machines/pumps is needed. Additional brush, roller, spraying equipment, peeler, cutter, spirit level, plumb bob, measuring tape, groove tape and chalk liner will be needed.

* Depends in details to the desired texture effect, building design and other architectural requirements

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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 necessary to apply an absorbency-equalizing and adhesion-promoting prime coat with **CapaStone StonePrime** in desired colour (white or black). If the design request grooves they have to be marked, chalked and build up with a suitable groove tape.

Allow thorough drying of priming/intermediate coats before further application. Apply the textured paint with suitable spraying equipment homogeneously to the complete surface.

When using texture coating which used marble grains like **CapaStone CeraTile**, a colour shade adjusting 1st coat with **CapaStone CeraTile** is generally recommended. The 1st coat of **CapaStone CeraTile** has to be taken and applied in same colour shade as **CapaStone CeraTile** top coat.

Always maintain a wet edge on material by applying and texturing continually over the wall surface. Apply thoroughly an even layer during spray application and avoid overlapping that may be caused by stories of scaffolding.

If necessary to achieve the desired design effect, directly after that treat the material evenly with a hard PVC roller to get the `splattered` effect. If it's with design grooves, the groove tapes has to be removed as earliest and with care, to avoid damages within the coated surface.

After through drying the whole surface has to be sanded with sanding machine and de-dusted. It is important that **CapaStone CeraTile** has to be protective coated with **NanoClear** within 48 hours after application to achieve the best result, to withstand the rigors climate of the Middle east and to minimize dust pick up.

To achieve a uniform texture always the same craftsmen should work on a surface. Appearance of **CapaStone CeraTile** might vary if floated by different mechanics applicators. Work Finish to corners, joints or other natural breaks and do not allow material to set up within an uninterrupted wall area.

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.

Guiding data for conventional spray equipment*

Gun type	Hopper Gun
Spray Gun Caliber	8 mm
Spray Angel	90°
Nozzle Size	3 - 6 mm (depends on desired texture)
Pressure	100 - 120 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 Paint System*

CapaStone CeraTile can be used on suitable interior and exterior surfaces as follows:

Interior and exterior surface standard typical paint system	Coats
CapaStone StonePrime	1
CapaStone CeraTile	2
NanoClear	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.

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Being natural products, the granular materials used in the textured 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. The surface roughness profile is influenced by the chosen tool; hence always the same type of texturing tool should be used. **CapaStone CeraTile** coatings are unsuitable for application on horizontal surfaces exposed to rain or moisture. In case of moist weather conditions (rain, dew, fog) 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 the weather. The traces of additives (Emulsifier washouts) are water-soluble and will disappear under the influence of a sufficient water quantity, e.g. repeated intensive rainfalls. 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 **Amphibolin** (colored to match the **CapaStone CeraTile** top coat) 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. 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 stone finish 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 can result in visible changes in colour. At the same time, it is a process which is influenced by material and project conditions. Hence, it is the state of the art to improve the colour stability for intense and/or very dark colour shades through an additional paint build-up. The natural graining of the used marble grains can become partially visible and appear as darker texture grains in the finishing paint. For light, clear colour shades and particularly clear yellow colour shades, the colour of the texturing grain may shine through across the area of finishing texture coat. Generally, this is due to the contrast between the colour shade and the marble graining. Both effects are due to the basic appearance of a marble-filled finishing paint 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 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 appropriates 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
Caparol Technical Advice Sheet No. 0607 Visual requirements - Structured Textured Coated Surfaces

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