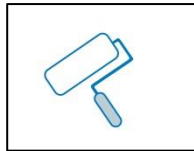
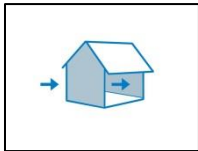


## Product Description

**NanoClear** is a premium quality pure acrylic transparent emulsion paint combined with special Nano polymer binder to be used over **CapaStone Paint systems** as a protective top coat. **NanoClear** is an UV resistant, hydrophobic, weatherproof, and hard coating with low soiling tendency.



## Recommended Use

**NanoClear** it is recommended for interior and exterior use as protective top coat on the following **CapaStone systems**:

CapaStone CeraTile  
CapaStone CeraTone  
CapaStone EuroStone  
CapaStone Granito

Also suitable for interior and exterior use as protective top coat on textured renders/plasters:

StructurePutz  
FlexoTex

Unsuitable are substrates showing efflorescence. 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	32±2%
Colour*	Transparent
VOC	13 g/litre
Thinner/Cleaner	Potable clean water
Finish	Semi-gloss
Packing size	1 litre, 3.75 litres & 18 litres
Shelf life	12 months

## Advantages

- Easy to apply
- Water based coating with specially modified pure acrylic binder
- Ecologically compatible with low odour
- Resistant to aggressive air pollutants
- Weather proof
- Hydrophobic and hard coating with low soiling tendency

## Technical Information No. 0009 – Issue: March 2020

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**Certificates and Test Values\***

VOC content tested and certified by DCL, report no. 2016089094

Liquid water permeability corresponds to Class W<sub>2</sub> permeability as per EN 1062-1 having a value of ≤ 0.5/kg/m<sup>2</sup>/h0.5

High water vapour permeability corresponds to Class V<sub>2</sub> as per EN 1062-1 having a value > 15g/m<sup>2</sup>/d

High UV stable – 2.000 hours tested by artificial weathering employing fluorescent UV lamps 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. The penetration of water and moisture in cracks, joints, coarse-textured pores, etc., must be excluded. 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**

**NanoClear** is single component water based product, should be mixed properly before application. The material can be diluted with potable clean water only. Stir **NanoClear** 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 airless spraying the amount of water added depends on the requirement of the airless machine. 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). 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	131	152	174	µm
Dry film thickness	30	35	40	µm
Theoretical spreading rate	7.7	6.6	5.8	m <sup>2</sup> /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	18	6	3	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 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 by roller only

**Typical Application Procedure\***

Allow thorough drying of priming coats before further application. Apply **NanoClear** with suitable roller 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\***

**NanoClear** can be used on suitable interior and exterior with CapaStone coated surfaces as follows:

**Interior and exterior surface standard typical paint system**

	Coats
CapaStone StonePrime	1
CapaStone BaseCoat	1
CapaStone CeraTone	1
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. 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 protective coatings, **NanoClear** 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. Do not apply on horizontal surfaces exposed to rain or moisture. Do not apply on calcareous (high lime) substrates and lightweight renders/plasters.

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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.

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.

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

This does not affect the quality and functionality of the product.

It is not possible to give warranty for 100% uniform gloss shade accuracy 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