

# COLORITE PERFORMANCE

Protective acrylic paint for internal and external application

HIGH UV RESISTANCE

WIDE RANGE OF COLOURS



## WHERE TO USE

For painting all old and new surfaces and surfaces, including those which are already painted, where both an attractive, smooth finish and a long-lasting, protective coat against environmental aggression and sun light are required. The special formulation of the product makes it particularly suitable for painting all cementitious and lime or gypsum-based surfaces which require long-lasting, durable protection, good water repellence and permeability to vapour.

### Some application examples

- Painting all types of new, well-cured cementitious or lime-based renders and old cementitious or lime-based renders which are regular, well-bonded and sound.
- Painting over old paint and old plastic or mineral coatings which are well bonded to the substrate.

## TECHNICAL CHARACTERISTICS

**Colorite Performance** is a paint for internal and external walls, made up of non-saponifiable, pure acrylic resin in water dispersion.

**Colorite Performance** is resistant to all climatic conditions and the aggressive attack of smog, salt and sunlight, and provides a long-lasting protective coat for the substrate.

**Colorite Performance** bonds perfectly to all types of renders and to old, well-bonded paintwork.

**Colorite Performance** is also suitable for internal use on brickwork or old painted surfaces if well-bonded and sound, after treatment with **Malech**.

**Colorite Performance** protects the substrate and gives it a uniform, attractive appearance with a silky finish. It is available in a wide range of colours which may be obtained with the **ColorMap**<sup>®</sup> automatic colouring system.

**Colorite Performance** meets the requirements of EN 1504-9 ("Products and systems for protecting and repairing concrete structures: definitions, requirements, quality control and conformity assessment. General principles for the use and application of systems"), and the requirements of EN 1504-2 ("Surface protection system for concrete") for the following classes: surface protection products – coating (C) – ingress protection (1.3) (ZA.1d) + moisture control (2.2) (MC) and increasing resistivity (8.2) (ZA.1e).

## RECOMMENDATIONS

- Do not apply **Colorite Performance** on damp substrates, or on substrates which are not fully cured.
- Do not apply **Colorite Performance** if the temperature is lower than +5°C or higher than +35°C (the surface must be dry and must not be in direct sunlight).
- Do not apply **Colorite Performance** if the level of humidity is higher than 85%.
- Do not apply **Colorite Performance** if it is about to rain or in windy weather.
- Please refer to the "Safety instructions for preparation and application" section.

## APPLICATION PROCEDURE

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### Preparation of the substrate

New surfaces or surfaces which have been patched-up with repair mortar must be well cured, perfectly clean, sound and dry.

Remove all traces of oil and grease and parts which are not well-attached from the surface.

Seal any cracks which are present in the substrate and repair the parts which are in poor condition.

Seal porosity and level uneven areas of the substrate with mortar and smoothing compounds from the MAPEI building products line.

Apply a coat of **Malech** (ready-to-use) and leave it to dry for 12-24 hours before applying **Colorite Performance**.

If a colour with poor covering characteristics is used, apply **Quarzolite Base Coat** or, in case of interior application, use colour-coordinated **Dursilite Base Coat** instead of **Malech**.

### Preparation of the product

Dilute **Colorite Performance** with 10-15% water, making sure that it is well mixed together. If possible, use a low-speed drill to help with mixing.

If only a part of the product is to be prepared, mix **Colorite Performance** as is in its original container before pouring off the quantity required.

### Application of the product

**Colorite Performance** is applied using traditional methods with a brush, a roller, by air-spraying or with an airless spray-gun system on top of a coat of dry **Malech** primer or **Quarzolite Base Coat** or **Dursilite Base Coat**.

The protection cycle comprises the application of at least two coats of **Colorite Performance** with a recoat time of 12-24 hours, according to humidity and temperature and, in any case, when the previous coat is completely dry.

Examples of the final effect and finishes obtained using **Colorite Performance** are illustrated in the "MAPEI Colours in Design" catalogue.

## CLEANING

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Brushes, rollers and other tools used for applying the product may be cleaned with water before the **Colorite Performance** has dried off.

## CONSUMPTION

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Consumption is heavily influenced by the absorption and roughness of the substrate, by the colour of the paint applied and according to the application technique used. Under normal conditions, consumption is generally 0.3-0.4 kg/m<sup>2</sup> (for two coats of the product).

## PACKAGING

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**Colorite Performance** is supplied in 5 and 20 kg plastic drums.

## STORAGE

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24 months if stored in a dry place away from sources of heat and at a temperature of between +5°C and +30°C. Protect from frost.

## SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

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**Colorite Performance** is not considered dangerous according to current norms and regulations regarding the classification of mixtures. We recommend to wear protective gloves and goggles and to take the usual precautions for handling chemical products. If the product is applied in a closed area, make sure that it is well ventilated.

For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

<p>TECHNICAL DATA (typical values)  Conformity with:  – product certified according to EN 1504-2 (Surface protection system for concrete)  – EN 1504-2 classes: surface protection products - coating - ingress protection (1.3) (ZA. 1d) + moisture control (2.2) and increasing resistivity (8.2) (ZA. 1e) (C, principles PI - MC - IR)</p>	
<p><b>PRODUCT IDENTITY</b></p>	
<p>Consistency:</p>	<p>thick liquid</p>
<p>Colour:</p>	<p>white, in colours from the MAPEI colour chart range or in various colours obtained using the <b>ColorMap®</b> automatic colouring system</p>
<p>Density (EN ISO 2811-1) (g/cm<sup>3</sup>):</p>	<p>approx. 1.35</p>
<p>Dry solids content (EN ISO 3251) (%):</p>	<p>approx. 61</p>
<p><b>APPLICATION DATA</b></p>	
<p>Dilution ratio:</p>	<p>10-15% of water</p>
<p>Recoat time:</p>	<p>12-24 hours, according to temperature and humidity and, in any case, only when the previous coat is completely dry</p>
<p>Application temperature:</p>	<p>from +5°C to +35°C</p>
<p>Consumption (kg/m<sup>2</sup>):</p>	<p>0.3-0.4 (two coats)</p>
<p><b>FINAL PERFORMANCE</b></p>	
<p>VOC content of ready-mixed product (white) (European Directive 2004/42/EC) (g/l):</p>	<p>≤ 15</p>
<p>VOC content of ready-mixed product (coloured) (European Directive 2004/42/EC) (g/l):</p>	<p>≤ 26</p>
<p>Colour variation after 1000 hours exposure to a Weather-Ometer (ASTM G 155 cycle 1), white colour:</p>	<p>ΔE &lt; 1</p>
<p>Colour variation after 1000 hours exposure to a Weather-Ometer (ASTM G 155 cycle 1), RAL7032 grey colour:</p>	<p>ΔE &lt; 1</p>
<p><b>EN 13300 CLASSIFICATION</b></p>	
<p>Hiding power at spreading rate of 10 m<sup>2</sup>/l EN ISO 6504-3:</p>	<p>&gt; 94% class 4</p>
<p>Wet scrub resistance 200 cycles EN ISO 11998:</p>	<p>&lt; 5 micron class 1</p>

Specular gloss 85° EN ISO 2813:	3.3 dead matt		
Largest grain size EN 21524:	< 100 micron fine		
<b>PERFORMANCE CHARACTERISTICS FOR CE CERTIFICATION ACCORDING TO EN 1504-2 - CLASSES ZA.1d + ZA.1e</b>			
STANDARD	TEST	RESULTS AND CONFORMITY TO REQUIREMENTS	
EN ISO 2409	oblique cut	result/class:	GT1, in conformity ( $\leq$ GT2)
EN 1062-6	permeability to CO <sub>2</sub>	$\mu$ :	1,363,475
		$s_D$ (m):	205
		dry thickness according to $s_D$ (m):	0.00015
		result/class:	in conformity ( $s_D > 50$ m)
EN ISO 7783	permeability to water vapour	$\mu$ :	2648
		$s_D$ (m):	0.4
		dry thickness according to $s_D$ (m):	0.00015
		result/class:	I ( $s_D < 5$ m)
EN 1062-3	capillary absorption and permeability to water	w [kg/(m <sup>2</sup> h <sup>0.5</sup> )]:	0.01
		result/class:	in conformity (w < 0.1)
EN 1062-11 4.1	thermal compatibility: ageing: 7 days at +70°C	result/class:	in conformity (adherence $\geq$ 0.8 N/mm <sup>2</sup> )
EN 13687-1	thermal compatibility: freeze-thaw cycles with immersion in de-icing salts	result/class:	in conformity (adherence $\geq$ 0.8 N/mm <sup>2</sup> )
EN 13687-2	thermal compatibility: thunder-shower	result/class:	in conformity (adherence $\geq$ 0.8 N/mm <sup>2</sup> )
EN 13687-3	thermal compatibility: thermal cycles without immersion in de-icing salts	result/class:	in conformity (adherence $\geq$ 0.8 N/mm <sup>2</sup> )
static EN 1062-7	crack resistance	crack-bridging ability ( $\mu$ m):	917
		result/class:	A3 (> 0.5 mm)
dynamic EN 1062-7	crack resistance	result/class:	B1

EN 1542	adhesion strength by pull off test	result/class:	in conformity (adherence $\geq 0.8$ N/mm <sup>2</sup> )
EN 13501-1	reaction to fire	euroclass:	B s1 d0
EN 13036-4	skid resistance	result/class:	II (dry internal surface) (> 40 dry units)
EN 1062-11:2002 4.2	artificial weathering	result/class:	in conformity
EN 1081	anti-static behaviour	result/class:	I (electrical resistance > 10 <sup>4</sup> and < 10 <sup>6</sup> Ω)
	hazardous substances	result/class:	in conformity
<b>FURTHER PERFORMANCE CHARACTERISTICS ACCORDING TO EN 1504-2 REGARDING REQUIREMENTS FOR CLASSES ZA.1d + ZA.1e</b>			
<b>STANDARD</b>	<b>TEST</b>	<b>RESULTS AND CONFORMITY TO REQUIREMENTS</b>	
EN ISO 5470-1	abrasion resistance	result/class:	in conformity ( $\Delta$ weight < 3000 mg)
EN ISO 6272-1	impact resistance	result/class:	class II ( $\geq 10$ Nm)
UNI 7928	diffusion of chloride ions	penetration (mm):	0.0
EN ISO 2812-1 - NH <sub>4</sub> <sup>+</sup>	chemical resistance	result/class:	in conformity

## WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our web site [www.mapei.com](http://www.mapei.com)

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