



**MAPEI**

# Mapecoat ACT 196

ADVANCED COATING TECHNOLOGY

**Semi-gloss enamel for interior walls, suitable for use in healthcare facilities. Highly washable and resistant to bacterial attack**



## WHERE TO USE

- Painting of new, old and already painted internal surfaces that require a **high level of hygiene** and cleanliness. **Mapecoat ACT 196** is ideal for protecting and decorating **walls and ceilings in areas used for medical purposes** such as hospitals, doctors' surgeries, outpatient departments, diagnostic centres and rehabilitation units.
- Painting cementitious, lime and gypsum-based substrates in **areas with a high rate of visitors and potentially high exposure to microbes** such as nursing homes, schools, wellness areas, gymnasiums, changing rooms and communal swimming pools.

## Some application examples

- Painting of internal walls and new, well-cured or old cementitious, lime and gypsum-based plaster and skimming mortars, as long as they are sound, well-bonded and have no crumbling areas.
- Painting of internal areas in clinics, medical centres, nursing homes and outpatients departments that need to be cleaned with disinfectants.
- Painting of internal areas in schools, sport complexes and recreational facilities subjected to high wear and contamination from bacteria.
- Painting of internal areas in various types of structures, in order to guarantee rapid and long lasting hygienic protection.

## TECHNICAL CHARACTERISTICS

Mapecoat ACT 196 is an acrylic-based internal wall



enamel containing special **protective, wide spectrum biological agents** that inhibit the deposit and spread of bacteria on surfaces, including when washed or disinfected frequently.

**Mapecoat ACT 196** resists attack from the **main strains of bacteria** such as Staphylococcus aureus, Escherichia coli, MRSA and Pseudomonas aeruginosa and its effectiveness has been demonstrated through testing carried out according to **ISO 22196** standards. The rapid action of its active ingredients immediately blocks growth of bacteria and impedes their spread.

**Mapecoat ACT 196** also contains **BioBlock® technology** which has a hygienising effect **against mould and fungi**, making it particularly suitable for **protecting areas difficult to reach during normal cleaning operations**, such as ceilings.

**Mapecoat ACT 196** has excellent resistance to cleaning cycles and very low dirt pick-up which make surfaces very easy to clean and considerably reduces maintenance costs.

When applied on internal surfaces, **Mapecoat ACT 196** bonds perfectly to all types of masonry, render, smoothing and levelling compounds and old paintwork, as long as they are well bonded and not crumbling.

**Mapecoat ACT 196** protects substrates and gives surfaces an even, compact finish **with a smooth satin effect**.

## APPLICATION PROCEDURE

### Substrate preparation

Surfaces to be painted must be well cured, perfectly clean, sound and dry. Remove all traces of oil and grease from the surface and any parts which are not well bonded. Seal all cracks and repair any damaged or deteriorated areas. Seal surface pores and level off uneven areas of the substrate with mortars from the MAPEI Building line. Apply a coat of **Malech** transparent bonding promoter diluted with water. The amount of water required depends on the type of substrate (cementitious, lime or gypsum-based, etc.) and its level of absorbency. As a general guide, it is recommended to dilute **Malech** 1/1 with water for more absorbent substrates and 1/2 for less absorbent substrates.

For bright colours that normally have poor covering properties (such as bright red, yellow or green) use **Dursilite Base Coat** coloured undercoat in the same colour, diluted with up to 5% of water. Wait until **Malech** or **Dursilite Base Coat** are completely dry (6-12 hours) before applying **Mapecoat ACT 196**.

### Preparation of the product

Dilute **Mapecoat ACT 196** with 0-10% water, depending on the application method used and the condition of the substrate. When diluting the paint make sure it is thoroughly blended. Use a drill at low speed for mixing if necessary. When preparing only

partial quantities, it is recommended to mix **Mapecoat ACT 196** undiluted in its original container before pouring off the quantity required.

### Application of the product

Apply **Mapecoat ACT 196** with a short-pile roller, by brush or by spray on the dry coat of **Malech** or **Dursilite Base Coat**. The complete cycle requires the application of at least two coats of **Mapecoat ACT 196**; wait 6-12 hours between each coat at normal temperature and humidity conditions, and in all cases wait until the previous coat is completely dry.

## RECOMMENDATIONS

- Do not apply if the temperature is below +5°C.
- Do not apply if the level of humidity is higher than 85%.
- Do not apply on damp substrates or on substrates that are not well cured.
- Do not apply directly on absorbent substrates; prime the surface with **Malech** or **Dursilite Base Coat** beforehand.
- In case of special manufacturing processes where the formation of mould and yeast is required, verify the suitability of the product beforehand.

## Cleaning

Brushes, rollers and other tools used to apply **Mapecoat ACT 196** may be cleaned with water before the paint dries.

## CONSUMPTION

Consumption is heavily influenced by the absorption and roughness of the substrate, the colour of the paint and the application method used. Under normal conditions consumption is generally 0.2-0.3 kg/m<sup>2</sup> (for two coats of product).

## PACKAGING

**Mapecoat ACT 196** is supplied in 4 kg and 16 kg plastic tubes.

## STORAGE

Store **Mapecoat ACT 196** 24 months in its original packaging in a dry place away from sources of heat at a temperature between +5°C and +30°C. Protect from freezing weather.

## SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website [www.mapei.com](http://www.mapei.com).

PRODUCT FOR PROFESSIONAL USE.

## 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*

**TECHNICAL DATA (typical values)**

– Product tested according to ISO 22196  
 “Determination of antibacterial activity on a painted surface”

**PRODUCT IDENTITY**

<b>Consistency:</b>	thick liquid
<b>Colour:</b>	white, colours from the MAPEI colour chart range or in various colours obtained using the <b>ColorMap®</b> automatic colouring system
<b>Density (EN 2811-1) (g/m<sup>3</sup>):</b>	approx. 1.2 (white)
<b>Dry solids content by weight (EN 3251) (%):</b>	approx. 57 (white)

**APPLICATION DATA**

<b>Dilution rate:</b>	0-10% of water
<b>Re-coat time:</b>	6-12 hours, depending on surrounding temperature and humidity; the previous coat must always be completely dry
<b>Application temperature range:</b>	+5°C to +35°C
<b>Consumption (kg/m<sup>2</sup>):</b>	0.2-0.3 (in 2 coats)

**FINAL PERFORMANCE**

<b>VOC evaluation after 28 days in emission chambers (white) (ISO 16000) (mg/cm<sup>3</sup>):</b>	< 2
<b>VOC content of ready-mixed product (white) (European Directive 2004/42/EC) (g/l):</b>	≤ 10
<b>VOC content of ready-mixed product (coloured) (European Directive 2004/42/EC) (g/l):</b>	≤ 50
<b>Resistance to mould and fungi (EN 15457):</b>	no growth
<b>Dirt pick-up (UNI 10792):</b>	ΔL ≤ 3.0
<b>Smell (UNI 11021, Appendix A):</b>	≤ 1.0
<b>Cleanability (UNI 11021, Appendix B):</b>	ΔE ≤ 3.0
<b>Resistance to washing agents (active-chlorine products, alkaline degreasers, acid-based de-scalers) (EN 2812-1):</b>	no alteration
<b>Resistance to disinfection agents (EN 2812-1):</b>	no alteration
<b>Resistance to thermal shock (UNI 11021, Appendix D):</b>	no alteration

**CLASSIFICATION ACCORDING TO EN 13300**

<b>Hiding power at a spreading rate of 6.7 m<sup>2</sup>/l (EN 6504-3):</b>	≥ 98% class: 2
<b>Wet-scrub resistance (200 cycles) (EN 11998):</b>	< 5 microns class: 1
<b>Gloss 60° (EN 2813):</b>	46 semi-gloss
<b>Largest grain size (EN 21524):</b>	< 100 microns fine

**RESISTANCE TO BACTERIA (IMSL test report)**

Strain of bacteria	Measurement method	Reduction from initial inoculum		Product performance
		Standard test	Test after 24 h leaching	
<b>Staphylococcus aureus:</b>	ISO 22196	≥ 99.9%	≥ 99.9%	compliant
<b>Escherichia coli:</b>	ISO 22196	≥ 99.9%	≥ 99.9%	compliant
<b>Methicillin resistant Staphylococcus aureus (MRSA):</b>	ISO 22196	≥ 99.9%	≥ 99.9%	compliant
<b>Pseudomonas aeruginosa:</b>	ISO 22196	≥ 99.9%	≥ 99.9%	compliant

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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 website [www.mapei.com](http://www.mapei.com)

## LEGAL NOTICE

*The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement*

*or replace requirements per the TDS in force at the time of the MAPEI product installation.*

*The most up-to-date TDS can be downloaded from our website [www.mapei.com](http://www.mapei.com).*

**ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.**

**All relevant references for the product are available upon request and from [www.mapei.com](http://www.mapei.com)**

