

MAPEI

Mapecoat ACT 021

ADVANCED COATING TECHNOLOGY
**Semi-gloss enamel
for interior walls,
suitable for use in environments
with food and beverage**

EXCELLENT CLEANABILITY

MOULD RESISTANT

WHERE TO USE

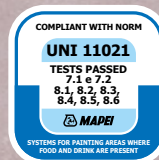
- Painting of new, old and already painted internal surfaces with specific hygiene requirements; **Mapecoat ACT 021** complies with the requirements of the **HACCP protocol for painted walls and ceilings in areas where food is present** such as the food industry and public and private environments serving food and drinks (bars, restaurants, supermarkets, schools and company canteens, etc.).
- Protecting and decorating cementitious, lime and gypsum-based substrates that require a **high level of hygiene and prolonged resistance to cleaning operations**.

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 rooms and areas in shops and the food industry and in public and private environments serving food and drinks.
- Painting of rooms that need to guarantee a high level of hygiene combined with long-term durability and ease of cleaning.

TECHNICAL CHARACTERISTICS

Mapecoat ACT 021 is an acrylic-based internal wall enamel with a high polymer content. It is specifically designed to coat surfaces to provide long-term protection which are **resistant to cleaning cycles and easy to clean**, characteristics proven by passing



the most stringent tests from **UNI 11021** regarding suitability for use in areas with food and drinks.

Mapecoat ACT 021 has **very low levels of dirt pick-up and odour release** compliant with the base requirements of products for use in areas with food and drinks.

Mapecoat ACT 021 also contains **BioBlock® technology** which actively blocks the formation and spread of mould, making it particularly suitable for **protecting areas difficult to reach during normal cleaning operations**, such as ceilings.

Mapecoat ACT 021 is resistant to changes in temperature and is suitable for use in **refrigeration units**.

When applied on internal surfaces, **Mapecoat ACT 021** bonds perfectly to all types of masonry, render, smoothing and levelling compounds and old paintwork, as long as they are well bonded and sound.

Mapecoat ACT 021 protects substrates and gives surfaces an **attractive effect** with a smooth, compact, satin finish.

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 the **Malech** or **Dursilite Base Coat** are completely dry (6-12 hours) before applying **Mapecoat ACT 021**.

Preparation of the product

Dilute **Mapecoat ACT 021** 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 021** undiluted in its original container before pouring off the quantity required.

Application of the product

Apply **Mapecoat ACT 021** 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 021**; 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.
- Do not apply to surfaces that will come into direct contact with food.

Cleaning

Brushes, rollers and other tools used to apply **Mapecoat ACT 021** 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/m² (for two coats of product).

PACKAGING

Mapecoat ACT 021 is supplied in 4 kg and 16 kg plastic tubs.

STORAGE

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

Mapecoat ACT 021 is hazardous for aquatic life. Do not dispose of this product in the environment.

During use wear protective gloves and goggles and take the usual precautions for handling of chemicals. If the product comes in contact with the eyes and the skin wash immediately with plenty of water and seek medical attention.

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.

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our

TECHNICAL DATA (typical values)

– Product compliant with UNI 11021 “Coating material and systems for environments with food and beverage”

PRODUCT IDENTITY

Consistency:	thick liquid
Colour:	white, colours from the Mapei colour chart range or in various colours obtained using the ColorMap® automatic colouring system
Density (EN ISO 2811-1) (g/cm³):	approx. 1.2 (white)
Dry solids content by weight (EN ISO 3251) (%):	approx. 57 (white)

APPLICATION DATA

Dilution rate:	0-10% of water
Re-coat time:	6-12 hours, depending on surrounding temperature and humidity; the previous coat must always be completely dry
Application temperature range:	+5°C to +35°C
Consumption (kg/m²):	0.2-0.3 (in 2 coats)

FINAL PERFORMANCE

VOC evaluation after 28 days in emission chambers (white) (ISO 16000) (mg/cm³):	< 2
VOC content of ready-mixed product (white) (European Directive 2004/42/CE) (g/l):	≤ 10
VOC content of ready-mixed product (coloured) (European Directive 2004/42/CE) (g/l):	≤ 50
Resistance to mould and fungi (EN 15457):	no growth

CLASSIFICATION ACCORDING TO EN 13300

Hiding power at a spreading rate of 6.7 m²/l (EN 6504-3):	≥ 98% class: 2
Wet-scrub resistance (200 cycles) (EN ISO 11998):	< 5 microns class: 1
Gloss 60° (EN ISO 2813):	46 semi-gloss
Largest grain size (EN 21524):	< 100 microns fine

CLASSIFICATION ACCORDING TO UNI 11021 – Coating material and systems for environments with food and beverage

Suitable for areas where food and drinks are present:

- walls and surfaces where resistance to mould is not required
- walls and surfaces where washability is not required
- walls, ceilings and surfaces where resistance and washability mould is required
- may be cleaned with active-chlorine products, alkaline degreasing products and acid-based de-scalers
- suitable for surfaces that need to be disinfected
- for refrigeration units

Basic requirements

Type of test	Measurement method	Results and conformity to requirements	
Dirt pick-up	UNI 10792	$\Delta L \leq 3.0$	compliant
Smell	UNI 11021 Appendix A	≤ 1.0	compliant

Special requirements

Type of test	Measurement method	Results and conformity to requirements	
Washability	EN ISO 11998	< 5 micron	compliant
Cleanability	UNI 11021 Appendix B	$\Delta E \leq 3.0$	compliant
Mould resistance	UNI 11021 Appendix C	≤ 1.0	compliant
Resistance to washing agents (active-chlorine products, alkaline degreasers, acid-based de-scalers)	EN ISO 2812-1	no alteration	compliant
Resistance to disinfection agents	EN ISO 2812-1	no alteration	compliant
Resistance to thermal shock	UNI 11021 Appendix D	no alteration	compliant

Mapecoat ACT 021



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 website 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.

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



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