



MasterCoat[®] ULTRA Cove

Polyurethane Based, Hygienic, Heavy Duty, Polyurethane Coating and Cove Mortar

Material Description

MasterCoat[®] ULTRA Cove is a pigmented, selfsealing polyurethane concrete cove mortar that is ideal for environments where hygiene and ease of cleaning are critical.

It offers excellent resistance to organic acids, dilute mineral acids, vegetable and animal fats, petroleum oils, and a wide range of solvents.

Areas of Application

These properties make it particularly well-suited for industrial settings exposed to both chemical and mechanical stress, such as dairy facilities, food and beverage production areas, chemical and pharmaceutical plants, and laboratories.

For projects requiring a higher sheen or enhanced appearance, MasterCoat[®] ULTRA Cove can be sealed with MasterCoat[®] ULTRA Coating.

Technical Properties

Structure of the Material MasterCoat [®] ULTRA RT Part A MasterCoat [®] ULTRA RT Part B MasterCoat [®] ULTRA RT Part C MasterCoat [®] ULTRA RT Part D	Polyurethane Resin Polyurethane Hardener Special Filler Liquid Pigment
Color	Red, Yellow, Green, Blue, Light Grey, Mid Grey, Dark Grey
Density	1.90 g/cm ³
Temperature Resistance	Resistant to cleaning processes up to 90°C dependent on thickness
Compressive Strength (EN 196/ ASTM C109)	27 N/mm ²
Flexural Strength (EN 196/ ASTM C109)	7 N/mm ²
Adhesion (EN ISO 4634)	> 1,5 N/mm ²
Co-efficient of Thermal Expansion (EN 1062-3)	w < 0.01 kg/m ² h ^{0.5}
Pot Life (25°C)	15 - 20 min. (usable working life of material following mixing and immediate spreading as per the application instructions).
Fire Resistance (EN 1350-1)	B _{FLS1}
Low Emissions (ISO 1600-3,6,9)(EN 16516)	Compliant
VOC Content	1.76 g/l

The physical properties listed above are based on tests conducted under controlled laboratory conditions at 20°C. Performance results from site-applied samples may vary depending on environmental and application factors. Slip resistance values are influenced by site conditions and application methods, and may diminish over time due to inadequate maintenance, surface wear, or contamination. Consistent and effective cleaning practices are essential to maintain surface performance.

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Colors



*Please note, the applied colours may differ from the examples shown. MasterCoat® ULTRA Cove systems may exhibit a yellowing effect over time resulting from thermal, UV or chemical exposure. This will be more pronounced on light grey or blue shades, *Colours marked with an asterisk will incur an additional supplement.*

HACCP Certification

MasterCoat® ULTRA MF systems have been HACCP International certified as food-safe for use in facilities operating a food safety management system based on HACCP principles. These systems are seamless, monolithic, impervious and non-porous, as such they do not support microbial growth.

Application Temperature Range

~10 – 30°C is recommended. Outside of this range, heating or cooling equipment should be used to achieve ambient conditions.

The substrate, before priming, should be at least 3°C above the dew point to reduce the risk of condensation or blooming.

This should be maintained for 48 hours after application.

Processing Method

(A) Surface Preparation

Priming of the substrate is required, scratch-coat the surface with MasterCoat® ULTRA MF unpigmented at 1.90 kg/m².

For non-ground resting slabs, solvent-free epoxy primer can be used at 0.25 kg/m² providing the substrate moisture is no greater than 75% RH.

Allow to cure 12 to 16 hours before applying the MasterCoat® ULTRA Cove screed.

Please note, if the surface is excessively porous it may be necessary to apply subsequent coats of the priming material until the substrate is fully sealed.

(B) Mixing

Mix the contents of MasterCoat® ULTRA Cove (Part A) until homogenous before adding the contents of MasterCoat® ULTRA Cove (Part B). Mix for 2 minutes using an electric mixer or helical drill until homogenous.

Add component MasterCoat® ULTRA Cove (Part C) and mix thoroughly for a further 3 minutes. Scrape any unmixed material from the sides of the mixing container and remix.

(C) Processing

Apply the fresh mixture to the wall surfaces using a trowel or smoothing trowel in the desired thickness until smooth.

Make sure that a continuous material recharge is guaranteed and a connection between the different mixtures within 5 – 7 minutes is guaranteed.

For skirtings and triangular bases, apply the fresh mixture to the primed surface by using a spatula or skirting tool, draw it into the desired shape and compact the mortar.

The wall and skirtings can be sealed after 12 - 24 hours with MasterCoat® ULTRA Coating using a paint roller and brush.

For bright colours a second seal coat may be required.

Overcoating

Overcoating should be carried out within 24 hours of application. If longer than 24 hours it will be necessary to lightly grind the surface by mechanical means before overcoating is carried out.

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Consumption

The recommended consumption of MasterCoat[®] ULTRA Cove:

4.0 mm	6.0 mm	9.0 mm
2.8 kg / lm	3.7 kg / lm	5.6 kg / lm

Assumes a 100.0 mm high, 50.0 mm radius cove, 100.0 mm out from the wall.

Point to Consider

- Ensure that the ambient temperature remains above 10°C for at least 24 hours after installation.
- The installed floor should be protected from other trades using Kraft paper or similar breathable material e.g. Correx sheet. Polythene should not be used.
- Protect the installed floor finish from damp, condensation, and water for at least 24 hours at 20°C.
- Ensure that the ambient temperature remains above 10°C for at least 24 hours after installation.
- As with all aromatic based polyurethane products light colours exposed to UV light, MasterCoat[®] ULTRA systems will be prone to cosmetic discolouration (yellowing of the surface), however this does not affect the physical or chemical resistance properties of the installed product.

Cleaning and Maintenance

The cleaning and maintenance of MasterCoat[®] ULTRA systems must be considered a vital and integral part of an overall hygiene program covering all areas of the processing plant. Regular cleaning and maintenance will ensure that the floor maintains the performance profile listed below. The method of cleaning and choice of cleaning equipment and / or agent should match the soil conditions and level of sanitation required.

All MasterCoat[®] ULTRA systems will withstand water wash down processes at continuous sanitising temperatures as well as fumigation. The ULTRA MF system can not be steam cleaned.

Cleaning of Tools

MasterCoat[®] Tool Cleaner should be used for cleaning tools and equipment after application.

Packaging

MasterCoat [®] ULTRA MF	Part A	Part B	Part C	Part D
Mixing Ratio	1,44 kg	1,58 kg	13,00 kg	0,18 kg

Shelf Life

12 months after the production date under appropriate storing conditions. Opened packages should be stored under appropriate storage conditions and used within one week.

Storage

Store in original drums under dry conditions and a temperature between 10 - 30°C. Do not expose to direct sunlight and prevent the temperature from falling below the above mentioned range.

Further Information

Information relating to the safe handling of this product can be found in the Material Safety Data Sheet. Local regulations concerning the safe handling of resin-based coating materials must be observed. Suitable protective clothing including suitable eye protection must be worn at all times.

All consumptions listed are for recommendation purposes only. Detailed application instructions and system build-up advice can be provided on request through our Technical Services team.

MasterCoat[®] systems and products are guaranteed against defective material and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which can be obtained on request.

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MasterCoat® accepts no responsibility for liability claims based on the suggested practices and data values listed on product data sheets. Product data sheets are regularly updated and it is the user's responsibility to ensure they obtain the most recent version.

Health and Safety

It is dangerous to approach the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children. For detailed information please consult the Material Safety Data Sheet.

Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is only responsible for the quality of the product **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

Contact

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