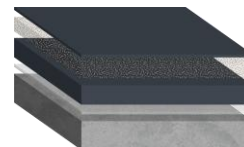


MasterCoat™ ULTRA DP



MasterCoat™ ULTRA DP is a Slip Resistant, Multi-Layer, Polyurethane Concrete System with a Textured Matt Surface Finish

System Description

MasterCoat™ ULTRA DP delivers a durable, impactresistant and slip-resistant surface with excellent resistance to abrasion, chemicals, and other physical or mechanical stresses.

The system incorporates MasterCoat™ ULTRA MF as a base coat, followed by a full aggregate scatter whilst still wet.

The surface is sealed with **MasterCoat™ Coating**. It with stands exposure to organic acids, dilute mineral acids, animal and vegetable fats, petroleum-based oils, and solvents.

MasterCoat™ ULTRA DP is suitable for medium to heavy duty industrial settings exposed to chemicals and foot or forklift traffic. It is formulated for food and beverage environments and is HACCP International certified food-safe.

HACCP Certification

MasterCoat™ ULTRA 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 nonporous, as such they do not support microbial growth.

Technical Properties

Color	Red, Yellow, Green, Blue, Light Grey, Mid Grey, Dark Grey
BS 8204-6 (FeRFA)	Type 8
Temperature Resistance	Resistant to cleaning processes up to 90°C
Impact Resistance (EN 13813)	>4 Nm (IR4)
Compressive Strength (EN 196/ ASTM C109)	50 N/mm ²
Tensile Strength (EN 196/ ASTM C109)	10 N/mm ²
Flexural Strength (EN 196/ ASTM C109)	20 N/mm ²
Adhesion (EN ISO 4624)	>1,5 N/mm ²
Slip Resistance (AS 4586-2013)	P5, SRV ~73 (dependent on specification)
Abrasion Resistance (EN 13892-4) (BS 8204-2)	AR 0.5 (Special Class)
Co-efficient of Thermal Expansion (ASTM C531)	5.8 x 10 ⁻⁵ /°C
Shore D Hardness (28 days)	80
Pot Life (25°C)	15-20 min. (usable working life of material following mixing and immediate spreading as per the application instructions).
Fire Resistance (EN13501: Bölüm 1)	B _{FL} S1
Overcoating Time (25°C)	~12 - 24 hours (some mechanical preparation may be required)
Low Emissions (ISO 1600-3,6,9)(EN 16516)	Compliant

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 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.

Processing Method

(A) Surface

Substrate Requirements

MasterCoat™ ULTRA systems are suitable for application on cementitious substrates and suitable polymer modified screeds.

All substrates should be capable of bearing loads, free of cracks and voids as well as free from laitance, dust and other contamination including dirt, oil, grease, coatings, and surface treatments.

The substrate should be sound with a minimum compressive strength of 25 N/mm² and a minimum tensile strength (pull-off) of 1.5 N/mm².

Substrate Preparation

Concrete or suitable polymer modified screed substrates should be mechanically prepared using captive vacuum enclosed shot blasting, or by appropriate diamond grinding to remove surface cement based laitance and previous surface treatments leaving an open textured mechanically prepared surface.

Weak concrete / polymer modified screed must be removed and repaired using recommended MBT Tech products. In order to ensure the installed system remains fully bonded to the substrate it is recommended that all terminating edges are rebated to produce a cross-section "anchor chase" of 5.0 mm deep by 5.0 mm wide, stepped out at 150.0 mm from and parallel with the walls i.e. day joints, movement joints, floor edges, door thresholds, upstands, plinths, etc.

Priming

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 MF 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

The contents of the MasterCoat™ ULTRA MF Part D should be drained into the MasterCoat™ ULTRA MF Part A component and the two materials thoroughly mixed until homogenous before adding the contents of MasterCoat™ ULTRA MF Part B. The mixed liquid should then be poured into a clean suitably sized separate mixing container and the MasterCoat™ ULTRA MF Part C aggregate component slowly added under constant mixing using a suitable slow speed electric mixer fitted with either a single or double mixing paddle or by using a forced action (rotary drum) type compulsory mixer until a uniform free flowing consistency has been achieved.

Follow the same mixing procedures when it comes to preparing the MasterCoat™ ULTRA Coating.

(C) Processing

Apply the mixed MasterCoat™ ULTRA MF screed by serrated / notched trowel, or pin rake to the required thickness.

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Within approximately 10 minutes roll the MasterCoat™ ULTRA MF with a spike roller to de-aerate the material. Whilst still wet, broadcast with Natural Quartz to the desired surface profile. Allow to cure before applying. MasterCoat™ ULTRA Coating to seal the surface by hard or soft rubber squeegee. When the material is sufficiently cured existing joints in the substrate must be carried through into the MasterCoat™ ULTRA finish.

Ensure to maintain continuity of wet material between pours (max. 5 – 7 minutes). For cleaning of tools and other contaminants use a suitable tool cleaner.

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.

Consumption

The recommended coverage of MasterCoat™ ULTRA MF is 5.70 kg/m² at 4.0 mm or 7.60 kg/m² at 6.0 mm.

MasterCoat™ ULTRA MF requires priming, use MasterCoat™ ULTRA MF unpigmented at approximately 1.90 kg/m².

Product	4.0 mm	6.0 mm
MasterCoat™ ULTRA MF	5,70 kg/m ²	7,60 kg/m ²
Broadcast Aggregate (30 - 60 mesh)	3,50 kg/m ²	
MasterCoat™ ULTRA Coating	0,60 kg/m ²	

Point to Consider

- 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. **MasterCoat™ ULTRA** can be cleaned routinely by the direct application of a water-steam mix.

Shelf Life

6 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 sun-light 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

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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.

MBT Tech 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. MBT Tech accepts no responsibility for liability claims based on the suggested practises and data values listed on product data sheets.

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.

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