MasterTop® BC 385 DTZ

Two Component, Solvent Free, UV Resistant, Clear Epoxy Based Coating

DESCRIPTION

MasterTop® BC 385 DTZ, s a two components, solvent free, UV resistant, clear, epoxy based coating.

FIELD OF APPLICATION

MasterTop® BC 385 DTZ,

- Forms the basis of the floor coating system.
- Chemistry and Pharmaceutical industries
- Shopping centers
- Airports
- Shops and restaurants
- Hospitals
- As a base coat **MasterTop® DTZ** system

CHARACTERISTICS

- Easy to apply
- High wear resistance
- High abrasion resistance
- High mechanical resistance
- UV resistant
- Clear
- Easy to clean and maintain
- Hygienic
- Excellent adhesive strength
- Resistant to chemicals and solvents

APPLICATION METHOD

Preparation of Substrate

The concrete substrates on which the product is going to be applied should be C25 or dosage of 350 minimum and the concrete should be 3 weeks old at least. After the preparation of the surface, the tensile strength of the substrate should exceed 1.5 N/mm^2 (tested with an approved pull-off tester at a load rate of 100 N/s). The residual moisture content of the substrate should not exceed 4% (tested with e.g. CM device). A damp proof course should be installed properly and be inact. The substrate temperature should remain +8°C minimum and the temperature of the substrate should at least be 3 K above the current dew point. All substrates should be structurally sound, dry and clean. Oil, grease and other adhesion impairing contaminants should be removed Bubble formation on the surfaces which absorbed oil should be removed with the usage of a blastrack or rotatiger. Oil contaminated substrates should first be pre-cleaned with an emulsifying cleaning detergent according to the supplier's instructions. Finally, the concrete or cement screed surface should be cleaned by using a high pressured water jet and excess water should be removed by a wet/dry vacuum cleaner. Application should take place within the re-coat intervals of the coating to which it is to be applied.

Mixing

MasterTop® BC 385 DTZ is supplied as ready to use kits in the exact ratio. Before mixing, precondition both A and B parts to the temperature of +15°C - +25°C. Pour the entire contents of part B into the container of part A; make sure that there is no product left in the part B package. Scrape well the sides and the bottom of the container to ensure a thorough mixing. After mixing **MasterTop® BC 385 DTZ** parts for 3-4 minutes, pour the mix into a fresh container, set it aside for a while and mix for another minute.

Application Method

Add the aggregate components and mix until the result is homogenous. Apply by using a notched trowel.

WATCH POINTS

- Avoid application under excessive heat or wind and/or when the ambient and/or substrate temperature is below 10°C or above +30°C.
- The materials to be used at the appropriate temperatures should be brought and stored in the application area 1-2 days prior to the application and enabled to adjust the ambient conditions.
- In extremely cold conditions, heaters should be used to increase the ambient and the workability of the product, the packages should be preconditioned to +20°C - +25°C to become ready to use.
- Epoxy and polyurethane based floor coatings should be applied by specialists.
- The reaction and workability times of resin based systems depend on the ambient and substrate temperatures as well as the relative humidity. Under lower temperatures, the chemical reaction times are prolonged and this increases the pot life, coating interval and the working time. In addition to this, the consumption is increased as the viscosity increases. High temperatures ignite stronger chemical reactions and the above mentioned times decrease accordingly. For the material to be cured properly, the ambient and the substrate temperatures should not fall below the specified limits. After the application, the material should be protected from direct contact with water for 24 hours minimum. Within this period, a contact with water may cause a surface carbonation and/or tackiness; both of which will cause the coating to lose its characteristics. In such cases, the overall coating should be removed from the floor and renewed.
- **MasterTop® BC 385 DTZ** is supplied as ready-to-use kits. No solvent etc should be added during application.
- Mixing should be done with a mechanical drill at 300-400 rpm with epoxy/polyurethane mixing paddles.
- **DO NOT MIX BY HAND.**
- After the first mix, contents should be poured into a clean container and mixed once again.

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- The empty packs should be consolidated and disposed properly in order to prevent reusing of the packages.

CLEANING AGENT

Re-usable tools must be cleaned carefully with **MasterTop® CLN 44** or with e.g. isopropanol.

PACKAGING

MasterTop® BC 385 DTZ, is supplied 17.4 KG working packs.

MasterTop® BC 385 DTZ	Part A	Part B
Mixed Ratio	12,00 kg	5,40 kg

STORAGE

The shelf life is 12 months from the date of production under suitable storage conditions. Opened packages should be stored under suitable storage conditions and used within 1 week.

EU REGULATION 2004/42 (DECOPAINT GUIDELINE)

This product conforms to the EU directive 2004/42/EG (Deco-Paint directive) and contains less than the maximum allowable VOC Limit (Stage 2, 2010). According to the EU directive 2004/42, the maximum allowable VOC content for the Product Category IIA / j type sb is 500 g/l (Limit: Stage 2, 2010). The VOC content for **MasterTop® BC 308** is < 500 g/l (for the ready to use product).

WARNING AND PRECAUTIONS

In its cured state, **MasterTop® BC 308** is physiologically non-hazardous. The following protective measures should be taken when working with the material:
Wear safety gloves, goggles and protective clothing. Avoid contact with the skin and eyes. In case of eye contact, seek medical attention. Avoid inhalation of the fumes. When working with the product do not eat, smoke or work near a naked flame. For additional references to safety-hazard warnings, regulations regarding transport and waste management please refer to the relevant Material Safety Data Sheet. The regulations of the local trade as-sociation and/or other authorities, regulating safety and hygiene of workers handling epoxy resins must be ob-served.

CONTACT INFORMATION

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MasterTop® BC 385 DTZ Technical Data Sheet -Revision Date: 12/2020

*Technical Data **				
Mixing Ratio			By weight	100:45
Density	Part A Part B Mixed	At 23ºC At 23ºC At 23ºC	g/cm^3 g/cm^3 g/cm^3	
Viscosity	Part A Part B Mixed	At 23ºC At 23ºC At 23ºC	mPa.s mPa.s mPa.s	
Pot Life		At 23ºC	min	15
Re-coating interval/ready for traffic		At 10ºC At 23ºC	Hour Day Hour day	Min. Max. Min. Max.
Fully cured/ready for exposure to chemicals		At 20ºC	day	
Substrate and application temperatures			^{0}C ^{0}C	Min. Max.
Max. permissible relative humidity		at any T°C	%	

* The above figures are intended as a guide only and should not be used as a basis for specifications.

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DOP NO : 04.13813.011	
EN 13813:2002 SR-C80-F30-B2-IR3 **MASTERTOP BC 385 DTZ**	
Şap malzemeleri ve zemine uygulanan şaplar - şap malzemeleri (Screed material and floor screeds – Screed material)	
Basınç Dayanımı (Compressive Strength)	**C80**
Flextural Strength (Eğilme Dayanımı)	**F30**
Yangına Karşı Tepki (Reaction To Fire)	**E / Efl**
Bağ Dayanımı (Adhesion Strength)	**B2,0**
Çarpmaya Dirençı (Impact Resisitance)	**IR3 Nm**
Aşınma Direnci (Taber Deneyi) (Abrasion Resistance)	**Ağırlık kaybı 3000 mg'dan daha düşük (Lost of weight <3000 mg)**

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DOP NO : 02.1504.2.031 **1020 – CPR – 040 065838**	
EN 1504-2: 2004	
MASTERTOP BC 385 DTZ **Beton Yapıların Korunması ve Tamiri İçin Mamuller ve Sistemler. Bölüm:2 Beton için Yüzey Koruma Sistemleri (Products and systems for the protection and repair of concrete structures Part 2: Surface protection systems for concrete)** **Prensipler 1.3 Yabancı madde girişine karşı koruma, 2.2 Nem Kontrolü, 5.1 Fiziksel Direnç, 8.2 Nem içeriğini sınırlayarak direnci artırma amaçlı kaplama malzemesi (Principles: 1.3 Protection against ingress, 2.2 Moisture control, 5.1 Physical resistance ,8.2 Increasing resistivity)**	
CO_2 Geçirgenliği (Permeability to CO2)	**CO_2 S_D Geçirgenliği > 50m (CO2 SD permeability > 50m)**
Su Buharı Geçirgenliği (Permeability to water vapour)	**Sınıf III (Class III)**
Kapiler Su Emme ve Su Geçirgenliği (Capillary absorption and permeability to water)	**w<0,1 kg /m².√h**
Çekip Koparma Deneyi Yoluyla Yapışma Dayanımı (Adhesion strength by pull-off test)	**Rijid Sistemler Trafik yüküyle birlikte:>2,0 N/mm²(1,5 min) (Rigid Systems With trafficking:>2,0 N/mm²(1,5 min))**
Aşınma Direnci (Taber Deneyi) (Abrasion Resistance)	**Ağırlık kaybı 3000 mg'dan daha düşük (Lost of weight <3000 mg)**
Çarpmaya Direnç (Impact Resistance)	**3 Nm**
Yangına karşı tepki (Reaction to fire)	**E/E_{fl}**
Tehlikeli maddeler (Dangerous substances)	**Madde 5.3 ' e uygun (Comply with clause 5.3)**