

MASTERTOP[®] TC 458

(Formerly MASTERTOP[®] Topcoat 40P)
Single component polyurethane UV- resistant protective traffic coating

Description

MASTERTOP[®] TC 458 is a single component elastomeric pigmented polyurethane coating designed for application in heavily trafficked areas. It provides a UV-resistant, hard-elastic surface resistant to chemicals and abrasion. Unlike conventional moisture curing polyurethane coatings MASTERTOP[®] TC 458 can be applied at higher thicknesses without foaming. MASTERTOP[®] TC 458 is fire retardant.

Primary uses

The high abrasion resistance of MASTERTOP[®] TC 458 combined with its elasticity makes it suitable for use in car parks both indoors and out. MASTERTOP[®] TC 458 may be used in the following applications:

NB This gives examples only and does not constitute a full and comprehensive list. For further information on application possibilities contact BASF Construction Chemicals UAE LLC.

- Pedestrian walk ways
- Light engineering workshops
- Car parks.
- Vehicle ramps and Traffic aisles

Advantages

- Excellent impact and abrasion resistance
- Elastomeric
- UV & weather resistant
- Fire retardant
- Good chemical and oil resistance

Colours

The standard colours are:

Basalt Grey, Black Grey, May Green, Oxide Red, Brilliant Blue

(Further colours are available on request).

Packaging

MASTERTOP[®] TC 458 is available in 24kg units.

Coverage

From 0.3kg/m² per coat please refer to BASF Method Statements for project specific coverages

*Typical properties

Mixed density	1.30-1.40gm/cm ³ depending on colour
Curing at 20°C and 60% rel. atm. hum.	Capable of bearing loads at 48 hours tack free approx. 30 mins. to be walked on approx. 2 hours
Reaction temperatures	from +5°C to +40°C
Rel. atm. humidity	40-90%
Tensile strength DIN 53504	approx. 4.5N/mm ²
Breaking elongation DIN 53504	approx. 200%
Water vapour diffusion resistance factor DIN 52615	approx. 3000
Fire classification	Swiss Fire Class, Fume Class 1 Resistant to flying fire and heat radiation in accordance with DIN 4102-B2

Guide to application

Preparation:

Remove laitance, weak or friable concrete and all contaminants that could affect the bond to the substrate.



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Suitable preparation includes light grit blasting, surface grinding etc. Surface defects should be repaired using MASTERTOP[®] Filler 2200 or other suitable repair compounds from the CONCREXIVE or EMACO range.

Priming:

Mix and apply MASTERTOP[®] PRIMER 2 surface conditioner to the prepared dust free surface at approximately 0.15-0.3kg/m². Into the wet primer, scatter a 0.6-2.0kg/m² MASTERTOP[®] SRA No. 3.

Note: If a smooth surface finish is required, omit the aggregate scatter.

Allow to cure.

Application

MASTERTOP[®] TC 458 should be stirred before use to ensure uniformity of colour.

Apply by roller, squeegee or airless spray to the primed tack free surface.

Apply at the rate of 0.8-1.2kg/m² (in 2-3 coats). MASTERTOP[®] TC 458 can be applied as a single coat, or as a multi coat sandwich system incorporating aggregates to give a slip resistant finish. When applying as a top coat or part of a multi coat system, do not exceed the maximum overcoating times of the previous coating.

Apply a minimum of two coats.

Do not apply when the humidity exceeds 90%. Ensure that the substrate temperature is 3°C higher than the dew point.

If a maintenance coat has to be applied, thoroughly wash the existing MASTERTOP[®] TC 458. Allow to dry, then immediately prior to overcoating, wipe the surface with a cloth dampened with MASTERTOP[®] SOLVENT No. 2.

Chemical resistance

MASTERTOP[®] TC 458 is resistant to acids and alkalis of medium concentrations, mineral oil products and solvents. Contact your local BASF office for specific details.

Shelf life and storage

The shelf life is 6 months in unopened drums in cool and dry conditions.

Once a drum has been opened, its contents should, if possible, be used up completely since surface skinning will form on any remaining quantities.

Safety precautions

Avoid any inhalation of vapour and contact with skin.

Wear protective gloves and protective goggles.

In case of skin contact, rinse immediately with soap and water! In case of eye contact, bathe eyes with water at once, then consult a doctor.

Do not eat, do not smoke and do not use an open flame when handling the product.

Observe the guidelines issued by the Employer's Liability Insurance Associations.



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Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

Quality and care

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

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* Properties listed are based on laboratory controlled tests.

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As all BASF technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.

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