

Mastertop[®]TC458

Single component polyurethane UV-resistant protective traffic coating

Description

Mastertop[®]TC458 is a single component elastomeric pigmented polyurethane coating designed for application in heavily trafficked areas. It provides a UV-resistant, hardelastic surface resistant to chemicals and abrasion. Unlike conventional moisture curing polyurethane coatings Mastertop[®]TC458 can be applied at higher thicknesses without foaming. Mastertop[®]TC458 is fire retardant.

Primary uses

The high abrasion resistance of Mastertop[®]TC40P combined with its elasticity makes it suitable for use in car parks both indoors and out.

It is suitable for use in many industrial situations where a hardwearing elastic floor or wall covering is required. Mastertop[®]TC458 may be used in the following applications:

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

NB: This gives examples only and does not constitute a full and comprehensive list. For further information on application possibilities contact BASF CC SA.

Advantages

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

Colours

The BASF CC SA standard colours for Mastertop[®]TC458 are: Mid Grey, Dark Grey, Green, Red, Blue. (Further colours are available on request).

Packaging

Mastertop[®]TC458 is available in 35kg units.

Coverage

0.8-1.2kg/m² (in 2-3 coats) please refer to BASF CC SA Technical Department for project specific coverage.

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 min, 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 resistanc factor DIN 52615	Approx 3000
Fire classification	Swiss Fire Class, Rume Class 1 Resistant to flying fire and heat radistion in accordance with DIN 4102 – B2

* Properties listed are only for guidance and are not a guarantee of performance.

Mastertop[®]TC458

Guide to application

Preparation

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

Suitable preparation includes light grit blasting, surface grinding etc. Surface defects should be repaired using Concrecive2200 or other suitable repair compounds from the Concrecive or Emaco range.

Priming

Mix and apply Mastertop[®]Primer2 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 No3. **Note:** If a smooth surface finish is required, omit the aggregate scatter. Allow to cure.

Application

Mastertop[®]TC458 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[®]TC458 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[®]TC458. Allow to dry, then immediately prior to overcoating, wipe the surface with a cloth dampened with Mastertop[®]Solvent No2.

Chemical resistance

Mastertop[®]TC 458 is resistant to acids and alkalis of medium concentrations, mineral oil products and solvents. Contact your local BASF CC SA 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.

Mastertop[®] TC458

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF CC SA representative. BASF CC SA reserves the right to have the true cause of any difficulty determined by accepted test methods.

Quality and care

All products originating from BASF CC SA facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001:2000.

06/98 BASF CC SA Revised 10/2006

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

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

BASF Construction Chemicals South Africa (Pty) Ltd

P.O. Box 420, Westonaria, 1780
11 Pullinger Street, Westonaria, 1779
Tel: +27 11 754 1343
Fax: +27 11 754 1105
e-mail: basfcc@mweb.co.za

61 Brunton Circle, Founders Hill, Modderfontein, 1645
P O Box 75845, Garden View, 2047
Phone +27-11-452 6557
Fax +27-11-452 3595
e-mail: basfcc@mweb.co.za

