

MasterSeal[®] TC 254

Two component polyurethane UV- resistant protective traffic coating

DESCRIPTION

MasterSeal TC 254 is a two 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 **MasterSeal TC 254** can be applied at higher thicknesses without foaming.

PRIMARY USES

The high abrasion resistance of **MasterSeal TC 254** combined with its elasticity makes it suitable for use in car parks both indoors and out. **MasterSeal TC 254** 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 Saudi Master Builders Solutions Technical Department
- Pedestrian walk ways
 - Light engineering workshops
 - Car parks.
 - Vehicle ramps and Traffic aisles

ADVANTAGES

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

COLORS

The Master Builders Solutions standard colors for **MasterSeal TC 254** are:
 Basalt Grey, Black Grey, May Green, Oxide Red, Brilliant Blue
 (Further colors are available on request).

PACKAGING

MasterSeal TC 254 is available in 24 kg units.

COVERAGE

From 0.3kg/m² per coat please refer to Master Builders Solutions Method Statements for project specific coverages.

TYPICAL PROPERTIES

Mixed density	1.30-1.40gm/cm ³ depending on color
Curing at 20°C and 60% rel. atm. hum.	Capable of bearing loads at 96 hours
tack free time	30 mins. approx.
Open to traffic	8 hours approx
Reaction temperatures	from +5°C to +40°C
Rel. atm. humidity	40-90%
Tensile strength ASTM D412	approx. 4.5N/mm ²
Breaking elongation ASTM D 412	approx. 200%
Taber Abrasion (ASTM D 4060)	Less than 50 mg/ 1000 revolution

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 **MasterTop 2200** or other suitable repair compounds from the MasterBrace or MasterEmaco range

PRIMING

Mix and apply **MasterTop P 650** 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 SR 3**. Note: If a smooth surface finish is required, omit the aggregate scatter. Allow to cure.

APPLICATION

MasterSeal TC 254 should be stirred before use to ensure uniformity of color. 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). **MasterSeal TC 254** can be applied as a single coat, or as a multi coat sandwich system incorporating aggregates to give a slip resistant finish.

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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 **MasterSeal TC 254**. Allow to dry, then immediately prior to overcoating, wipe the surface with a cloth dampened with **MasterTop THN 2**.

CHEMICAL RESISTANCE

MasterSeal TC 254 is resistant to acids and alkalis of medium concentrations, mineral oil products and solvents. Contact your local Master Builders Solutions 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.

NOTE

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

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

QUALITY AND CARE

All Master Builders Solutions Products are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health and safety standards of ISO 9001 and Master Builders Solutions ESHQ recommendations.

* Properties listed are based on laboratory controlled tests.

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CONTACT

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Disclaimer:

In view of widely varying site conditions and fields of application of our products, this technical data sheet is meant to provide general application guidelines only. This information is based on our present knowledge and experience. The customer is not released from the obligation to conduct careful testing of suitability and possible application for the intended use. The customer is obliged to contact the technical help-line for fields of application not expressly stated in the technical data sheet under "Fields of Application". Use of the product beyond the fields of application as stated in the technical data sheet without previous consultation with Master Builders Solutions and possible resulting damages are in the sole responsibility of the customer.

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