

# MASTERSEAL<sup>®</sup> TC 1871

## Polyurethane Dispersion based, UV and weather resistant protective topcoat

### Description

MASTERSEAL<sup>®</sup> TC 1871 is a single component, water based aliphatic and elastomeric pigmented polyurethane dispersion coating. MASTERSEAL TC 1871 can be applied at high thicknesses without foaming. MASTERSEAL<sup>®</sup>TC1871 hardens to an attractive matt finish.

### Primary uses

MASTERSEAL<sup>®</sup> TC 1871 is used as an UV resistant top coat system and is suitable for use in both internal and external applications.

MASTERSEAL<sup>®</sup> TC 1871 may be used in the following applications:

- External coatings for walls
- Pipes and steel coating
- Light engineering workshops
- Plant rooms
- Abrasion resistant coating
- Anti slip protective coatings

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.

### Features

- One component and easy to apply
- Excellent impact and abrasion resistance
- Elastomeric
- UV & weather resistant
- Good chemical and oil resistance

### Colours

MASTERSEAL<sup>®</sup> TC 1871 is available in a range of colours: black grey, basalt grey, blue, red, reseda green, may green, light grey and white.

### Packaging

MASTERSEAL<sup>®</sup> TC 1871 is available in 24 kg units.

### \*Typical properties

Mixed density at 25°C	1.25-1.40gm/cm <sup>3</sup>
ASTM D 1475	depending on colour
Solids Content ASTM D1259	57 – 60% by weight depending on colour
VOC Content	189 g/l
Viscosity	1500 – 5000 mPa s
Curing at 25°C and 60% rel. atm. hum.	Capable of bearing loads at 48 hours
Tack free time	10°C            35 min
ASTM C679	25°C            22 min
	40°C            10 min
Reaction temperatures	from +5°C to +40°C
Rel. atm. humidity	40-80%
Tensile strength	approx.3.0N/mm <sup>2</sup>
ASTM D 412	
Elongation at Break	approx. 180%
ASTM D 412	
Abrasion Resistance	Approx. 225mg
ASTM D 4060 (CS17 wheel/ 1000g / 1000 cycle)	

### Application method

MASTERSEAL<sup>®</sup> TC 1871 is a single component material. Prior to application, the temperature of the material should be in the range of 15-25°C. Some settling of the pigments may occur on standing. MASTERSEAL<sup>®</sup> TC 1871 should, therefore be well stirred before use. MASTERSEAL TC 1871 should be spread evenly with a squeegee followed by back rolling.



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## Theoretical Coverage Rate

From 0.30kg/m<sup>2</sup> per coat. Two coats are recommended please refer to BASF Method Statements for system specific coverage rates.

The curing time of the material is influenced by the humidity and the ambient and substrate temperatures, the chemical reaction is slowed down; this lengthens the curing time and the recoating intervals. At high humidity and high temperatures the chemical reaction is accelerated thus the time frames mentioned above are shortened accordingly. Following application the material should be protected from direct contact with water for approximately 24hours. The temperature of the substrate must be at least 3 k above the dew point both during the application and for at least 24hours after the application.

Subsequent coats of MASTERSEAL<sup>®</sup> TC 1871 should be applied within 16 hours of previous applications of the same product.

## Substrate pre-treatment

The coating to which the MASTERSEAL<sup>®</sup> TC 1871 is applied should be clean and dry and free from oil and grease and any other substances which may impair adhesion. Application should take place within the re-coat intervals of the coating to which it is to be applied. Not to be used over ponding water.

If the re-coat interval is missed then the surface shall be solvent wiped, abraded and solvent wiped again.

## Storage

Store in original containers, under dry conditions and a temperature between 15-25°C. Do not expose to direct sun-light

## Chemical resistance

MASTERSEAL<sup>®</sup> TC 1871 is resistant to acids and alkalis of low concentration, mineral oil products and solvents. Contact your local BASF office for specific details.

## Shelf life

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 possible surface skinning can occur on remaining quantities.

## Safety precautions

Avoid any inhalation of vapour and contact with skin.

Wear protective gloves, goggles and clothing. 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.

## 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.



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## 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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