

# Duresil CTE MY

## Coal tar epoxy coating for concrete and steel protection

### WHERE TO USE

For the protection of sewage treatment plants, cisterns and concrete sewer pipes in contact with aggressive chemicals such as acids, alkalis, hydrocarbons, detergents and sewage.

### Some application examples

For protection of:

- Sewage treatment tanks.
- Sewer mains.
- Recycling tanks for oils and hydrocarbons.
- Safety reserve tanks.
- Drain wells.
- Sandblasted steel surfaces.
- Reinforced concrete and steel exposed to salty air.
- The outer face of concrete joists on bridges and viaducts.

### TECHNICAL CHARACTERISTICS

**Duresil CTE MY** is an abrasion-resistant, two-component, coal tar epoxy coating with high solids content. **Duresil CTE MY** cures to a smooth finish and is resistant to acids, alkalis, salts, oils, and hydrocarbons.

The hardened **Duresil CTE MY** film is designed for contact with sewage and can be used for the protection of sewage treatment tanks and sewer mains.

### RECOMMENDATIONS

- Do not dilute **Duresil CTE MY** with water. For spray applications, xylene or thinner may be used as needed.
- Do not apply **Duresil CTE MY** when rain threatens.
- Do not apply **Duresil CTE MY** at temperatures below +5°C.
- Do not apply **Duresil CTE MY** on friable, damp or dusty substrates.
- Do not apply **Duresil CTE MY** on substrates subject to rising damp (consult MAPEI's Technical Service Department).
- Do not apply **Duresil CTE MY** on surfaces in contact with drinking water (use **Mapecoat DW 25**).

### APPLICATION PROCEDURE

#### Preparation of the substrate

Substrates must be thoroughly clean, solid, and dry. Completely remove loose materials, dust, traces of formwork, release agents, paints and varnishes by sandblasting.

TECHNICAL DATA (typical values)		
<b>PRODUCT IDENTITY</b>		
Consistency:	fluid paste (mixed)	
Dry solids content (%):	~80 (mixed)	
<b>APPLICATION DATA</b>		
Mixing ratio (by volume):	component A : component B = 4 : 1	
Consistency of mix:	fluid	
Colour of mix:	black	
Density of mix (kg/m <sup>3</sup> ):	1,250	
Pot life (at 30°C)(hrs):	~ 2	
Curing time (hrs): - at 25°C - at 32°C	~ 18 ~ 14	
Waiting time between first and second layer (at 28°C)(hrs):	6-12	
Final hardening time (at 32°C)(days):	7	
<b>FINAL PERFORMANCE DATA</b>		
Performance characteristic	Test method	Performance of product
Temperature resistance (7 days)(°C):	-	~ +95 (continuous) ~ +140 (intermittent)
Adhesion strength (N/mm <sup>2</sup> ):	ASTM D4541	1.5 (concrete failure)
Abrasion resistance (g):	ASTM D4060-07 (wear index in g/1000 revolutions/1kg)	0.075
Mandrel bend test (%): (mean film thickness : 320 µm) (mandrel size : 3 mm)	ASTM D522-93a	Elongation range (no cracking) 46

CHEMICAL RESISTANCE OF DURESIL CTE MY					
EXPOSURE	Acids	Alkalis	Solvents	Salts	Water
IMMERSION	Very Good	Very Good	Good	Excellent	Excellent
SPILLAGE	Excellent	Excellent	Very Good	Excellent	Excellent
FUMES	Excellent	Excellent	Excellent	Excellent	Excellent

Fill any cracks and repair degraded sections with the products from the **Mapegrout** line.

Seal and level any irregularities in the substrate with **Planitop 130**, fine finishing mortar.

**Duresil CTE MY** should be applied after the substrate and any repairs made with cement-based mortars have completely cured.

For steel surfaces always sandblast with silica sand to SA 2½ or clean mechanically (ST3).

#### **Preparation of the product**

**Duresil CTE MY**'s two components must be mixed together. Stir Part A briefly until homogenous. Pour component B (hardener) into component A (resin) and mix at low speed with a mechanical stirrer until completely homogenised.

Do not mix partial quantities of material from the pack in order to avoid measuring errors that could interfere with the complete hardening of **Duresil CTE MY**.

#### **Application of the product**

**Duresil CTE MY** can be applied using conventional techniques, brush, roller or spray, in at least two coats. Wait from 6 to 12 hours between coats, depending on ambient conditions.

If the viscosity must be lowered to facilitate spray applications, dilute **Duresil CTE MY** with 5-10% of xylene or thinner.

#### **Maintenance**

Surfaces treated with **Duresil CTE MY** can be cleaned with water and detergent.

#### **Cleaning**

Clean brushes, rollers and spraying equipment (airless) before **Duresil CTE MY** hardens using xylene or thinner.

#### **Colour**

Black.

#### **CONSUMPTION**

0.16 litre/m<sup>2</sup>/coat x 2 coats for a theoretical dry film thickness (DFT) of 250 µm.

#### **PACKAGING**

20 litre kits (16 litre component A + 4 litre component B).

#### **STORAGE**

Store **Duresil CTE MY** for 12 months in its original, closed packaging in a dry place, far from sources of heat and open flames, at a temperature of between +5°C and +30°C.

#### **SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION**

**Duresil CTE MY** components A and B are inflammable. We recommend storing it away

from naked flames and sparks, to avoid smoking, to prevent the build up of electrostatic energy and to work in well ventilated areas. They are also irritant for the skin and eyes and may cause sensitization if they come into contact with the skin of those predisposed. **Duresil CTE MY** component A may cause irreversible damage if used for lengthy periods. The product contains low molecular weight epoxy resins that may cause sensitization if cross-contamination occurs with other epoxy compounds.

During use, wear protective cloths, gloves and goggles, protect the respiratory tracks wearing a mask and work in well ventilated areas. If the product comes into contact with the eyes or skin, wash immediately with plenty of clean water and seek medical attention.

**Duresil CTE MY** components A and B are also hazardous for aquatic life. Do not dispose of these products in the environment.

For further and complete information about the safe use of our product please refer to our latest version of the Material Safety Data sheet.

PRODUCT ONLY FOR PROFESSIONAL USE.

#### **WARNING**

*Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.*

**Please refer to the current version of the Technical Data Sheet, available from our website [www.mapei.com](http://www.mapei.com)**

#### **LEGAL NOTICE**

*The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.*

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**All relevant references for the product are available upon request and from [www.mapei.com](http://www.mapei.com)**

**Duresil  
CTE MY**



**MAPEI Malaysia Sdn. Bhd.** (231780-K)

**Head Office :** Tel +(60) 3 7842 9098 - Fax +(60) 3 7842 6197

**Johor Bahru Office :** Tel +(60) 7 595 3032 - Fax +(60) 7 595 3098

**Penang Office :** Tel +(60) 4 642 9098 - Fax +(60) 4 642 9097

**Sales Admin :** Tel +(60) 3 7842 9989 - Fax +(60) 3 7842 9880

**Nilai Plant :** Tel +(60) 6 799 8028 - Fax +(60) 6 799 8191

**Email:** mapei@mapei.com.my **Website:** www.mapei.com.my

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