

# CWC®SMARTCOTE 560

## Two Component Coat Tar Based Chemical Resistant Epoxy Protective Coating

### Description

**CWC®SMARTCOTE 560** is two parts Coal-Tar-Epoxy specially designed for protection of concrete and steel structure in aggressive environment. **CWC®SMARTCOTE 560** available in low viscosity (**CWC®SMARTCOTE 560-LBV**) as well as high build (**CWC®SMARTCOTE 560-HBV**). **CWC®SMARTCOTE 560** is based on Phenalkamine polymer which provides extra chemical resistance and moisture tolerance of the surface.

### Indicative Characteristics

Type	CWC®SMARTCOTE 560-LBV	CWC®SMARTCOTE 560-HBV
Colour, Mixed Component	Black	Black
Mixing Ratio, by wt. Pack A : Pack B	5:1	5:1
Mixed Density, kg/l	1.4±0.1	1.4±0.1
Solid % (w/w)	>85	>85
Touch Dry, hours	3-4	3-4
Hard Dry, hours	8-16	8-16
Pot life, hours	>4	>4
Recoating time,	12-24 hours	12-24 hours
Full Cure	7days	7 days
Salt Spray test, 2000hours, ASTM B 117	No blistering and rusting	No blistering and rusting
Apply By	Brush, roller, airless spray	Brush, airless spray
Dry Film thickness per coat	50-70 microns, Depending on surface condition	125-200 microns, Depending on surface condition
No. of coats required	2 minimum	2 minimum
Theoretical Coverage, m <sup>2</sup> /kg	4-6	2-4

### Domains of Application

Marine piling, sheet piling, hydraulic pipes, pens-stocks, sewerage plant and industrial waste processing equipment, below ground retaining walls, building foundations, etc.

### Method of Application

#### Surface Preparation

##### Steel Surface

Round off welds and rough edges. Remove weld spatter.

Abrasive blast - clean steel surfaces in accordance with AS 1627: 4 class 2 ½ or Near White Grade (SSPC-SP-10, NACE 2) with a 2-3 mil (50-75µ) surface profile is recommended for optimal performance.

##### Concrete Surface

Substrate surface should be sound, clean and dry for successful coating application to ensure maximum bonding between the substrate and coating system. Moisture content of substrate surface should not be more than 5%.

Clean the surface by scrubbing followed by thorough water wash and wire brushing to remove laitance, dust, grease, paint, etc. followed by air drying. As the case may be, light sand blasting, detergent wash and /or acid etching may also be done. The choice of surface preparation should be determined by the nature and extent of contaminants present on the concrete surface. Damaged or uneven areas, cracks etc. should be made good before application of coating.

##### Primer

Generally, no primer application is required.

##### Mixing

Break down viscosity of component-A by a power-driven mixer followed by addition of component-B slowly into component-A. and continue mixing for 2-3 minutes to get a smooth and homogeneous blend is achieved.

##### Thinning

Do not add any thinner at normal condition

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#### Application

Apply a heavy wet coat, special attention to welds, seams and sharp edges.

#### Spray Application

For spray application, use like GRACO SMART CONTROL 2.0 to a thickness of 200-300 microns (WFT) in single coat for the case of **CWC®SMARTCOTE 560-HBV** and 80-100 microns for the case of **CWC®SMARTCOTE 560-LBV**. Multiple coats should be applied to achieve desired film thickness. Wet film thickness should not be more than 500 microns in one go.

#### Brushing and Rolling

For brush application, use a soft bristle brush. For roller application, use short-nap epoxy application roller.

#### Recoating:

To ensure maximum inter-coat adhesion, the second coat should be applied as soon as possible after the previous coat is firm (12-24). Where the initial coat has cured more than 36 hours at 27°C or higher, the surface must be lightly grit-blasted or sanded and swabbed with MIBK to ensure a mechanical bond.

#### Cleaning of Tools

Use Xylene or MEK to clean tools when the **CWC®SMARTCOTE 560** is still soft. Cured hard coating shall be removed mechanically.

#### Advantages

- Excellent resistance to weathering
- Resistance to wide range of Industrial waste chemicals
- Very good service life in marine environment
- Excellent adhesion with concrete, steel, wood, and most of the other building materials.
- Can be applied on slightly damp concrete surface.

#### Packing

Pack A 20kg + Pack B 4kg, (24 kg kit)

#### Precautions

- Store the material at the 5° to 40°C temperature range in shaded cool place and keep it away from fire and any heated body. Clean all tools with MEK or any standard solvent before polymerization starts.
- Application shall be carried out at below 70% RH and at least 3°C above the dew point.
- Mix full quantity of Pack A and B materials to maintain appropriate mixing ratio.
- Flammable item
- Application shall be carried out in well ventilated area.
- Keep away from naked flame. Do not smoke or weld nearby areas where application is carrying out.

#### Safety

- Wear hand gloves, safety shoes and safety goggles while using and handling the product.
- In case eyes or mouth are affected wash with plenty of clean water and seek medical treatment immediately.

Before use, refer to the Material Safety Data Sheet. The MSDS is available on [www.cwcchemical.in](http://www.cwcchemical.in)

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