



## Technical Data Sheet

### BC Tar Coat

#### Solvent-Free Coal Tar Modified Epoxy Coating

#### 1). Product Description

BC Tar Coat is a two-component, solvent-free, high-build, amine-cured coal tar modified epoxy coating formulated to provide exceptional protection against corrosion and chemical attack. It exhibits excellent adhesion to both concrete and steel surfaces, forming a durable, highly resistant barrier ideal for aggressive industrial and marine environments.

#### 2). Features & Benefits

- 100% solids – solvent-free and environmentally safer
- Excellent adhesion to steel and concrete substrates
- High chemical and abrasion resistance
- Outstanding resistance to water, seawater, sewage, and industrial effluents
- Long-term corrosion protection in aggressive environments
- High build, easy to apply by brush, roller, or spray
- Excellent resistance to alkalies, salts, and petroleum-based products
- Can be applied directly without primer in most cases

#### 3). Recommended Uses

BC Tar Coat is primarily designed to protect metal and concrete surfaces against corrosion and chemical attack. Typical applications include:

- Steel tanks and pipelines (internal and external)
- Sewage treatment plants and effluent tanks
- Dock and harbor structures
- Marine and offshore installations
- Foundations and underground waterproofing
- Industrial floors and retaining walls
- Wastewater and chemical containment areas



#### 4). Technical Information

Property	Typical Value
Type	Two-component coal tar modified epoxy
Color	Black
Finish	Semi-gloss
Solids Content	100%
Specific Gravity	1.26 ± 0.05 kg/L
Mixing Ratio (A:B by volume)	4:01
Theoretical Coverage	1.5 – 2.1 m <sup>2</sup> per kg at 350 microns DFT*
Dry Film Thickness (per coat)	250–400 microns
Touch Dry (25°C)	Approx. 24 hours
Pot Life (25°C)	1 hour 15 minutes
Full Cure	14 days at 25°C
Adhesion to Concrete	>3 N/mm <sup>2</sup> (no bond failure)
Adhesion to Steel	No bond failure at substrate
Temperature Resistance	No flow or deterioration under heat

\*Coverage may vary depending on surface profile, porosity, and method of application.



## Chemical Resistance

Chemical	Resistance
Alkalies	Excellent
Ammonia	Excellent
Battery Acid	Good
Sea Water	Excellent
Effluent Water	Excellent
Exhaust & Sewage Gases	Good
Gasoline	Excellent
Hydrochloric Acid (10%)	Good
Nitric Acid (10%)	Good
Toluene	Good
Acetic Acid	Poor
MEK	Poor
Distilled Water	Excellent
Sewage	Excellent

## 5). Surface Preparation

### Concrete:

- Concrete must be at least 28 days old, clean, sound, dry, and free from grease, oil, dust, or contaminants.
- Recommended preparation methods include grit blasting, scarifying, acid etching, or grinding.
- Final cleaning should remove all residues by vacuum cleaning. Surface must be completely dry before application.

### Steel:

- All steel surfaces should be grit blasted to SA 2½ (BS 4232) standard.
- Apply BC Tar Coat as soon as possible after blasting to prevent flash rusting.

## 6). Mixing & Application

- Mix Part B (Hardener) into Part A (Resin) using a slow-speed electric drill fitted with a jiffy mixer for at least 3 minutes until uniform consistency is achieved.



- If necessary, adjust viscosity by adding 2–5% BCI Solvent.
- Apply using brush, roller, or airless spray.
- Do not apply below 5°C or when the surface is damp.
- Ensure good ventilation during application and curing.

## 7). Coverage

Theoretical coverage at 350 microns DFT will be approx. 1.5 – 2.1 m<sup>2</sup> per kg.  
(Note: Actual coverage depends on surface roughness and method of application.)

## 8). Shelf Life & Storage

- Shelf Life: 12 months from the date of manufacture in original unopened containers.
- Storage Conditions: Store in a cool, dry, well-ventilated area away from direct sunlight and sources of ignition.

## 9). Packaging

- Part A (Resin): 16 kg
- Part B (Hardener): 4 kg

## 10). Health & Safety

- Avoid inhalation of vapors and contact with skin or eyes. Use in a well-ventilated area.
- Wear suitable protective clothing, gloves, and eye/face protection.
- Refer to Material Safety Data Sheet (MSDS) for detailed health and safety information.

### DISCLAIMER

The data presented in this sheet are based on laboratory testing and practical experience. Variations in substrate, application method, and environmental conditions may impact performance. Users are advised to carry out tests under their own conditions. Building Chemistry Industry's responsibility is limited to the product replacement in cases of proven manufacturing defect.

