

# REC EPO 92CL

## HIGH-PERFORMANCE INDUSTRIAL COAL TAR EPOXY

### DESCRIPTION

**REC EPO 92CL** is a two-component, high-solids, poly amide-cured epoxy coating blended with refined coal tar pitch. It is designed for use on steel and concrete surfaces exposed to severe industrial and marine environments. The coating provides excellent resistance to abrasion, strong chemicals, and prolonged immersion in fresh or salt water. It is suitable for applications where high corrosion protection and durability are required. **REC EPO 92CL** is not intended for use in potable water tanks, as it may impart an odor to liquids. It is not recommended for exposure to strong acids or immersion in strong solvents.

### KEY FEATURES & BENEFITS

- High-performance coal-tar epoxy coating.
- Excellent corrosion and water resistance.
- Good chemical and abrasion resistance.
- High adhesion and impact resistance.
- Suitable for immersion and severe environments.
- High-solids, high-build protective coating.
- Suitable for steel and concrete substrates.

### PRIMARY APPLICATIONS

- Steel and concrete structures in severe industrial environments.
- Marine and immersion applications.
- Water tanks, sumps, basins, and containment areas.
- Wastewater and sewage treatment facilities.
- Pipelines and underground structures.
- Areas exposed to chemical splash and corrosive conditions.

### TECHNICAL INFORMATION

|                                        |                                                     |
|----------------------------------------|-----------------------------------------------------|
| Resin Type                             | Polyamide-cured epoxy blended with refined Coal Tar |
| Solvents                               | Xylene, Methanol                                    |
| Weight per Liter                       | Approx. 1.3–1.4 kg/L                                |
| Solids by Weight                       | 77%                                                 |
| Solids by Volume                       | 74 ± 2%                                             |
| Recommended DFT per Coat               | 200–250 µm                                          |
| Maximum DFT per Coat                   | 500 µm                                              |
| Wet Film Thickness for Recommended DFT | 275–325 µm                                          |
| Maximum Recommended Wet Film Thickness | 625–685 µm                                          |
| Recommended Coats                      | Two Application Coats                               |
| Mixing Ratio (A: B)                    | 4:1                                                 |
| Pot Life at 21°C                       | 3 hours                                             |
| Tack-Free Time (21–27°C)               | 3–4 hours                                           |
| Handling Time (21–27°C)                | 18–36 hours                                         |
| Recoat Time                            | Before 24 hours                                     |
| Force Cure                             | 2 hours at 107°C                                    |
| Pull-Off Adhesion (ASTM D4541)         | >1,400 psi                                          |
| Tack-Free                              | 3–4 hours                                           |

|            |                  |
|------------|------------------|
| Handle     | 18–36 hours      |
| Recoat     | Before 24 hours  |
| Force Cure | 2 hours at 107°C |

## INSTRUCTIONS TO USE

### SURFACE PREPARATION

Ensure all surfaces are clean, dry, sound, and free from dust, oil, grease, salts, chemicals, loose material, and other contaminants. Clean contaminated areas with **REC CLEANER** or a suitable detergent. Treat mold or mildew with an appropriate cleaning solution, rinse with fresh water, and allow the surface to dry completely.

**STEEL – IMMERSION SERVICE:** Abrasive blast clean to SSPC-SP 10 and achieve a suitable surface profile. Remove weld spatter and sharp edges, and grind rough welds smooth.

**STEEL – NON-IMMERSION SERVICE:** Abrasive blast clean to SSPC-SP 6 and achieve a suitable surface profile. Apply the specified coating system after proper surface preparation.

**PREVIOUSLY COATED SURFACES:** Ensure existing coatings are sound, clean, and firmly bonded. Abrade smooth or glossy surfaces to provide a suitable profile. Conduct a test patch to confirm compatibility and adhesion before full application.

**CONCRETE AND MASONRY:** Remove loose or unsound material, laitance, and previous coatings by suitable mechanical methods. Dense or non-porous concrete should be acid-etched or abrasive-blasted to create a suitable profile. New concrete should be adequately cured and sufficiently dry before coating.

### APPLICATION CONDITIONS

Apply **REC EPO 92CL** only when:

- Air and surface temperatures are between 10°C and 38°C (50–100°F).
- The surface temperature is at least 3°C (5°F) above the dew point.
- The substrate is clean and dry.
- Adequate ventilation is available during application and curing.

For immersion service and severe environments, apply the coating to the specified total dry film thickness.

Conventional or airless spray application is preferred for large areas.

### MIXING

Stir the component A thoroughly before adding the component B. Add part B to A in the specified ratio and mix well using a suitable low-speed mixer until a uniform mixture is obtained. If the components are cold or thick, allow them to reach room temperature before mixing. Prepare only the amount of material that can be used within the specified pot life.

### STANDARD APPLICATION

Apply **REC EPO 92CL** by suitable conventional or airless spray equipment. Brush or roller application may be used for small areas, touch-up work, stripe coating, and weld seams. For immersion service and severe environments, apply the coating in multiple coats to achieve the specified total DFT. Ensure each coat is continuous, uniform, and free from runs, sags, pinholes, and other defects. The subsequent coat should be applied within the recommended recoat interval. If the maximum recoat interval has been exceeded, mechanically abrade or brush-blast the previous coating to provide a suitable surface profile before applying the next coat.

### EQUIPMENT RECOMMENDATIONS

#### • BRUSH / ROLLER

Suitable for small areas, touch-up work, stripe coating, and weld seams. Use equipment specifically suitable for epoxy coatings.

#### • CONVENTIONAL SPRAY

Use a pressure pot with dual regulators and suitable spray equipment.

Recommended equipment includes:

| Parameter | Recommendation |
|-----------|----------------|
|-----------|----------------|

|            |                                                         |
|------------|---------------------------------------------------------|
| Fluid Hose | Minimum 3/8-inch I.D.; maximum recommended length 50 ft |
| Fluid Tip  | Approximately 0.086-inch I.D.                           |
| Thinning   | Up to 20% where required for air-atomized spray.        |
| Thinner    | Approved REC thinner                                    |

- AIRLESS SPRAY**

| Parameter      | Recommendation   |
|----------------|------------------|
| Pump Ratio     | 30:1             |
| Pump Output    | 3.0 GPM          |
| Fluid Hose     | 1/2-inch I.D.    |
| Fluid Pressure | 2,100–2,500 psi  |
| Fluid Tip      | 0.023–0.035 inch |
| Filter Mesh    | 30 mesh          |

Equipment settings may require adjustment according to the specific spray equipment, temperature, viscosity, and site conditions.

### THINNING

Thinning is normally not required. When necessary for application, **REC EPO 92CL** may be thinned with the approved **REC Thinner** in accordance with the recommended application method. For conventional air-atomized spray, thinning may be used up to the specified maximum level. Do not use unauthorized solvents or thinners, as they may adversely affect coating performance.

### CLEANING

Clean tools and application equipment immediately after use with **REC CLEANER**. Do not let the coating to cure on application equipment.

### COVERAGE

#### 5-8 m<sup>2</sup>/L

Actual coverage may vary depending on surface profile, application method, equipment, wastage, and site conditions.

### PACKAGING

**REC EPO 92CL** is usually available in **20 kg units**.

Packaging sizes may be subject to change. Confirm current packaging availability with RECKON CHEMICALS PVT LTD., Lahore.

### LIMITATIONS

- Not recommended for potable water tanks.
- Not recommended for strong acid exposure.
- Not recommended for immersion in strong solvents.
- Application should not proceed when condensation, rain, or unsuitable environmental conditions are expected.
- Actual coverage and drying times depend on substrate condition, application method, temperature, humidity, film thickness, and ventilation.
- Always conduct a compatibility test when applying over an existing coating system.

## STORAGE

Store the product in a cool, dry, well-ventilated warehouse away from direct sunlight, heat, ignition sources, and incompatible materials. Keep containers tightly closed in their original, unopened packaging.

**Shelf Life:** 12 months for both components when stored under recommended conditions.

## SAFETY INFORMATION

**REC EPO 92CL** contains flammable solvents and must be handled with appropriate precautions. Use only in well-ventilated areas. Avoid breathing vapors, spray mist, and sanding dust. Wear suitable protective gloves, protective clothing, eye protection, and appropriate respiratory protection where required. Avoid contact with skin and eyes. For confined areas, provide adequate forced ventilation and use suitable respiratory protection where required. Keep away from heat, sparks, flames, and other ignition sources. Keep out of reach of children.

## QUALITY STATEMENT

All our products are manufactured to comply with our internal QA/QC program and quality management system to ensure consistency and quality.

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