



# ABADUR-210

## TWO COMPONENTS COAL TAR EPOXY CURED WITH POLYAMIDE

## DESCRIPTION

A two component coal tar epoxy coating which displays excellent corrosion and chemical resistance for tank lining, immersion and non-immersion service in crude oil, salt solutions and fresh or sea water with just a single coat.

ABADUR-210 is industrial lining and coating for use varying from cold to hot climates on marine structures, pilling, ballast tanks, crude oil cargo, ships bottoms, burned pipes, oil production and refining plants, sewage treatment plants.

ABADUR-210 is suitable for use over both steel and concrete. It normally does not require a primer or any additional topcoats but also can be applied over inorganic zinc silicate primer to serve as a tie coat between primer and topcoat.

## FIELD OF APPLICATION

- Refineries
- Marine structures
- Offshore platforms
- Wastewater treatment plants

## **ADVANTAGES**

- Cathodic protection system
- High adhesion to surface
- High mechanical strength
- Abrasion resistant

#### SURFACE PREPARATION

All surfaces to be coated should be clean, dry and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:1992. Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning

#### **Abrasive Blast Cleaning**

For immersion service, ABADUR-210 must be applied to surfaces blast cleaned to a minimum of Sa2½ (ISO 8501-1:1988) or SSPC-SP10. However, for atmospheric exposure ABADUR-210 may be applied to surfaces prepared to a minimum of Sa 2 1/2 (ISO8501-1:1998) or SSPC-SP6.

Surface defects revealed by the blast cleaning process, should be ground, filled, or treated in the appropriate manner.

A surface profile of 60-75 microns is recommended.

#### **Primed surfaces**

ABADUR-210 can be applied over approved anti-corrosive primers. The primer surface should be dry and free from all contamination, and ABADUR-210 must be applied within the over coating intervals specified area of breakdown, damage, etc., should be prepared to the specified standard e.g. Sa 2 ½ (ISO 8501-1:1998), or SSPC-SP6, abrasive blasting, or SSPC-SP11, (hand/ power cleaning) and patch primed prior to the application of ABADUR-210.













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Ministry of Industry Mine and Trade R & D Certificate

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## **Concrete Surfaces**

Concrete should be cured for a minimum of 28 days prior to coating. The moisture content of the concrete should be below 4%. All surfaces to be coated should be clean, dry and free from curing compounds, release agents, trowelling compounds, surface hardeners, efflorescence, grease, oil, dirt, old coatings and loose or disintegrating concrete. All poured and precast concrete must also blasted, wire brushed or acid etched to remove laitance. Spall concrete should be repaired by cutting out to sound concrete and patching with ABADUR-P1. Cracks, holes and honeycombs must be repaired prior to application.

Surface preparation shall not take place in the following conditions:

- 1- At temperature below 5 °C.
- 2- For the relative humidity greater than 85%.
- 3- When the metal surface temperature is less than 3 °C above the dew point.
- 4- Outside day light hours on exterior locations

#### **APPLICATION**

Material is supplied in two containers as a unit. Always mix a complete unit in the proportion supplied. Once the unit has been mixed it must be used within the working Pot life specified.

1-Agitate part A with a power agitator.

2-Combined entire contents of curing agent (part B) with base (Part A) and mix thoroughly with power agitator

-To prevent moisture condensation during application, surface temperature must be at least 3 °C above the dew point.

-In hot climate, material temperature should be 20 to 25 °C prior to mixing; otherwise pot life becomes very short.

-For satisfactory cure, air and surface temperature must be above 10 °C

-Paint shall not be applied when wind speed is in excess of 7 m/s.

Air less Spray	Tip range 0.017-0.021 inch Total output pressure at spray tip not less than 141 Bar (2000 psi)				
Air Spray	Nozzle orifice1.8-2.2mm Nozzle pressure:3-5 Bar (43-72 psi )				
Brush	Typically 50-70 microns can be achieved.				
Roller	Typically 50-70 microns can be achieved.				

#### **APPLICATION EQUIPMENT**











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## **TECHNICAL PROPERTIES**

Color Mixing Ratio Density (A+B) Volume solid Coverage Typical dry film thickness Number of coat Application method Substrate Induction time Flash point Thinner/Cleaner

Black, Dark brown 100:16(by weight) Approx. 1.3 g/cm<sup>3</sup> 75±3%

7.5 m<sup>2</sup>/lit (100 micron dry film thickness) 100-125µm One or two Conventional or airless spray, brush or roller Blasted or primed steel or concrete Maximum 10 minutes 25°C T-200

Brying rime								
Temperature	Touch dry	Hard dry	Over-coating		Full ouro			
			Min	Max				
15°C	8hrs	48hrs	36hrs	3 days	13 days			
25°C	4hrs	36hrs	30hrs	2 days	7 days			
40°C	2½hrs	27hrs	24hrs	1 day	4 days			

Drving Time

Pot life							
Material temperature	15°C	25°C	40°C				
Pot life	3½ hrs	2 hrs	70 min				

## PACKAGING

29 kg set Part A (Base): 25 kg Part B (Hardener): 4 kg

#### **STORAGE & SHELFLIFE**

The shelf life is 12 months if unopened, stored free from frost, moisture and direct sunlight.













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### **HEALTH & SAFETY**

This product is Flammable. Keep away from heat and open flame .Keep container closed .Use with adequate ventilation. Avoid prolonged and repeated contact with skin. If used in confined areas, observe the following precautions to prevent hazards of fire or explosion or damage to the health:

1-Circulate adequate fresh air continuously during application and drying.

2-Use fresh air masks and explosion proof equipment.

3- Prohibit all flames, sparks, welding and smoking.

MSDS is available at ABADGARAN website.

#### **TECHNICAL SERVICE**

The ABADGARAN INTERNATIONAL GROUP Technical Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.













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