

## **ABAFLOOR-31**

### **SELF-LEVELING EPOXY SMOOTH TOPCOAT FLOORING**

#### **DESCRIPTION**

ABAFLOOR-31 is a two-component, high solid epoxy based smooth floor topcoat. Its excellent wear, abrasion and chemical resistance properties make it suitable for the protection of primed concrete floors in the food industry, industrial and commercial warehouses, power plants and other locations where a heavy duty, smooth and cleanable floor topcoat is required.

ABAFLOOR-31 resists splash and spillage of a wide range of industrial chemicals and cleaning agents. It can easily clean from dirt and grease, resisting normal cleaning procedures.

#### **FIELD OF APPLICATION**

- Parking and warehouses
- Laboratories, Hospital and Health centers
- Aircraft hangars
- Food, Beverage, Dairies and Drug Plants

#### **ADVANTAGES**

- Very high initial and final mechanical strength
- Very good self leveling and flow ability
- Easy to apply
- Excellent adhesion to concrete surfaces
- Excellent water and chemical resistance

#### **SURFACE PREPARATION**

ABAFLOOR-31 must be applied over approved primers of ABAPRIME-11 or ABAPRIME-12 or intermediates of ABAFLOOR-21 or ABAFLOOR-22. ABAFLOOR-31 should be applied within the overcoating intervals specified

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 should be clean and dry.

#### **Surface preparation shall not take place in following conditions:**

- At temperature below 5 °C
- When the relative humidity is greater than 80%
- When the surface temperature is less than 3 °C above dew the point
- Outside day light hours on exterior locations



## Application Method

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-Combine the entire contents of part B with Part A and mix thoroughly with power agitator. Mix thoroughly for at least three minutes, scraping the container bottom and side to assure complete mixing. There is no induction or waiting time required after mixing before application.

The exothermic nature of epoxy setting reactions may cause rapid temperature rise when the mixture is left massed in a bucket, resulting in high temperatures and loss of utility of the product.

Like all high performance coating, this product must be applied as recommended to obtain the maximum protection for which this coating is formulated.

Pour ABAFLOOR-31 on the floor and spread using a flat trowel. After 10 minutes, roll the surface with a pin roller to remove air bubbles. Apply a minimum of 0.5-1 mm ABAFLOOR-31 normally provides a smooth, high gloss finish after application.

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

- Do not thin for any reason.
- Do not apply the paint when wind speed is in excess of 7 m/s.
- Do not apply the paint when surface temperature is below 10°C.

## Product compatibility

Depending on the actual application of the flooring system, various primers and intermediates can be used in combination with this topcoat. Some examples are shown below.

Primers: ABAPRIME-11, ABAPRIME-12

Intermediates: ABAFLOOR-21, ABAFLOOR-22

## TECHNICAL PROPERTIES

Appearance	Viscose liquid
Mixing Ratio (A:B)	5:1 (by weight)
Density (A+B)	1.7 ± 0.1 g/cm <sup>3</sup>
Volume Solid	98±2
Theoretical spreading rate (at 1 mm)	1 (m <sup>2</sup> /l)
Bond Strength	> 2.5 MPa (Concrete failure)
Compressive Strength	~70 MPa
Flexural Strength	~35 MPa
Tensile Strength	~25 MPa



Construction  
Chemicals Producers  
Membership



Iranian  
Tunneling  
Association  
Membership



Iran Standard's Mark  
Holders Association  
Membership



ISO 9001:2008  
TÜV NORD Iran PJS



National Accreditation  
Center of Iran  
ISO / IEC 17025



Iranian Concrete  
Institute  
Membership



Ministry of Industry,  
Mine and Trade  
R & D Certificate

### Drying Time

Temperature	Touch dry	Over-coating		Full cure
		Min	Max	
+15 °C	9 hrs	32 hrs	3 days	13 days
+25 °C	6 hrs	24 hrs	2 days	7 days
+40 °C	4 hrs	18 hrs	1 days	4 days

### Pot life

Material temperature	+15 °C	+25 °C	+40 °C
Pot life	90 min	55 min	20 min

### PACKAGING

30 kg set.

### STORAGE & SHELF LIFE

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

### 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 safety 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.

