

ABAFLOOR-31 SL

Self-Leveling Epoxy Smooth Topcoat Flooring

DESCRIPTION

ABAFLOOR-31 SL 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 SL 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, hospitals and health centers
- Aircraft hangars
- Food, beverage, dairies and drug plants

ADVANTAGES

- Excellent 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-32 must be applied over approved primers of ABAPENODUR or ABAPRIME-11 or ABAPRIME-12 or intermediates of ABAFLOOR-21 or ABAFLOOR-22. ABAFLOOR-31 SL should be applied within the over coating 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 PREPERATION SHALL NOT TAKE PLACE IN FOLLOWING CONDITIONS:

- At temperature below 15 °C
- When the relative humidity is greater than 80%
- When the surface temperature is less than 3 °C above the dew point

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 and B separately 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.

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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 coatings, this product must be applied as recommended to obtain the maximum protection for which this coating is formulated.

Pour ABAFLOOR-31 SL on the floor and spread using a flat trowel. Within 10 minutes, roll the surface with a pin roller to remove air bubbles. Apply a minimum of 1-1.5 mm ABAFLOOR-31 SL 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 flooring material when ambient temperature is below 20°C and more than 40 °C.
- Do not apply the flooring material 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, ABAPENODUR

Intermediates: ABAFLOOR-21, ABAFLOOR-22

TECHNICAL PROPERTIES

Properties	Values
Physical State at 20(°C)	Viscose liquid free flowing mix
Volume Solid	98±2
Density (g.cm ⁻³)	1.7±0.1
Mixing Ratio (A:B)	5:1
Drying Time (day) @ 25°C	7
Cleaner	Aromatic solvents and thinners
Application Frequency Times (sets)	1-2
Bond Strength @7days (MPa)	>2.5 (with concrete cohesive failure)
Compressive Strength @7days (MPa)	~44
Tensile Strength@7days(MPa)	~11



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Drying Time

Temperature(°C)	Touch dry (hrs.)	Over-coating (hrs.)		Full cure (days)
		Min.	Max.	
+20	24	24	32	8
+30	14	14	24	6
+40	10	10	14	4

Pot life (When the material temperature is 25°C)

Ambient temperature(°C)	+20	+30	+40
Pot life(minutes)	~60	~50	~20

PACKAGING

30 kg ready to mix units, in 2 parts (Part A: 25 kg bucket; Part B: 5 kg bucket)

STORAGE & SHELF LIFE

The shelf life is 6 months in the original packaging if unopened, stored free from frost, moisture and direct sunlight.

The best recommended storage temperature is +15 to +30 °C.

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.

All data presented in this technical datasheet are based on our last researches in ABADGARAN CONSTRUCTION CHEMICALS laboratories and are just as a guide for choosing appropriate material. Therefore users should conduct a sufficient investigation to establish the suitability and conformity of any product for intended uses.



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