

ABAPRIME-12

POLYAMIDE CURED CONCRETE EPOXY PRIMER

ABAPRIME-12 is a two component polyamide cured solvent base clear concrete epoxy primer. It is recommended as a sealer on concrete to improve adhesion of subsequent coat to the substrate. Like all primers, ABAPRIME-12 alone is not suitable for immersion in acid or alkaline solutions.

ADVANTAGES

- Excellent adhesion to concrete substrate
- Water and chemical resistant
- Low viscosity with high penetrating capacities

SURFACE PREPARATION

All Surfaces to be coated should be clean, dry and free from contamination. Prior to primer application all surfaces should be assessed and treated in accordance with SSPC-SP13 / NACE 6.

Concrete should be cured for a minimum of 28 days prior to coating. The moisture content of the concrete should be below 4%. All cracks should be filled with ABADUR-P1.

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. Start the application right after finishing the defined induction time.

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.

Application Equipments

Air less Spray	Tip range 0.017-0.021 inch Total output pressure at spray tip not less than 110 bar (1600psi)
Air Spray	Nozzle orifice : 1.8- 2.2 mm Nozzle pressure:3-6 Bar (40-90psi)
Brush	Typically 30-60 mic can be achieved
Roller	Typically 30-60 mic can be achieved

TECHNICAL PROPERTIES

Appearance	Clear liquid
Mixing Ratio (A:B)	4:1 (by weight)
Density (A+B)	0.9 g/cm ³
Volume Solid	35±2
Theoretical spreading rate (at 30 microns)	11.7 (m ² /L)
Induction time	15 min
Bond Strength	> 3MPa (Concrete failure)
Thinner/Cleaner	T-200
Number of coat	one
Application methods	Air less Spray, Air Spray, Brush or Roller
Substrate	Clean and well prepared surface
Flash point	25°C

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	360 min	240 min	120 min



PACKAGING

20kg 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 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.



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