

ABADUR-P1

TWO-COMPONENT THIXOTROPIC EPOXY ADHESIVE MORTAR

DESCRIPTION

ABADUR-P1 is a thixotropic, structural 2-component adhesive and repair mortar, based on a combination of epoxy resins and special fillers designed to offer easy mixing and application as well as high strength for use in the building and construction industry.

ADVANTAGES

- Excellent adhesion to most substrates
- Excellent initial and final mechanical strength
- Excellent water and chemical resistance
- Rapid shrinkage free hardening
- Good impact and abrasion resistance
- Easy to apply
- Solvent-free

SURFACE PREPARATION

Concrete

All surfaces should be clean, dry and free from curing compounds, release agents, troweling compounds, standing water, grease, oil, dirt, bitumen coatings and loose or disintegrating concrete. All poured and precast concrete must also have blasted, wire brushed or acid etched to remove laitance.

Steel

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

Surface preparation shall not take place in following conditions:

- At temperature below 10 °C.
- When the surface temperature is less than 3 °C above dew the point.

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. Combined entire contents of curing agent (part B) with base (part A) and mix thoroughly with slow speed power agitator (max. 300 rpm). Mix thoroughly for 2-3 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. To maximize handling and working time, pour the mixture into shallow pans.

Apply ABADUR-P1 to the prepared substrate by trowel, brush or gloved hand. The adhesive layer should not be less than 2 mm and not more than 20 mm thick.

- 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 this mortar when surface temperature is below 10°C.
- There should be no standing water on concrete surfaces.

TECHNICAL PROPERTIES

Color	Grey	
Mixing Ratio	3:1 (by weight)	
Density (A+B)	Approx. 1.7 g/cm ³	
Volume solid	100%	
Bond Strength	> 3 MPa (Concrete failure)	
Compressive Strength	3 days	Approx. 45 MPa
	7 days	Approx. 65 MPa
Flexural Strength	7 days	Approx. 35 MPa
Tensile Strength	7 days	Approx. 15 MPa

Pot life

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

PACKAGING

6kg sets

STORAGE & SHELF LIFE

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

HEALTH & SAFETY

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.

