



ABADUR MP-5/25

TWO-COMPONENTS SOLVENT FREE THIXOTROPIC EPOXY MORTAR

ABADUR MP-5/25 is a thixotropic, structural 2-components 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. This product is designed to be used at ambient temperature between 5 to 25 °C. It conforms to ASTM C881.

FIELD OF APPLICATION

- As a structural adhesive and mortar for Concrete, Stone, Ceramics, Bricks, Steel, Iron, Aluminum, Wood, Polyester, Epoxy and Glass
- As a repair mortar and adhesive for corners and edges, holes and void filling, vertical and overhead use
- Joint filling and crack sealing for Joint and crack arris/edge repair

CHARACTERSTICS / ADVANTAGES

- Excellent adhesion to most substrates
- High initial and final mechanical strength
- Excellent water and chemical resistance
- Excellent impact and abrasion resistance
- Easy to apply at temperature between 5-25 °C
- 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 the following conditions:

- At temperature below 5 °C.
- When the surface temperature is less than 3 °C above the dew 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 MP-5/25 to the prepared substrate by trowel or gloved hand. The adhesive layer should not be more than 30 mm thick.

- Do not thin for any reason
- Do not apply this mortar when surface temperature is lower than 5 °C and upper than 25 °C.
- There should be no standing water on concrete surfaces.

TECHNICAL PROPERTIES

Appearance	Part A: white paste Part B: black paste
Color	grey
Mixing Ratio (A:B)	2:1 (by weight)
Density (A+B)	Approx. 1.5 g/cm ³
Volume solid	100%
Flash point	80°C
Cleaner	T-200

MECHANICAL PROPERTIES

Compressive Strength	~70 N/mm ²
Flexural Strength	~25 N/mm ²
Tensile Strength	~10 N/mm ²
Bond Strength to Concrete	2.5-3.0 N/mm ² (concrete Failure)

Drying Time

Temperature	Touch dry	Full cure
5°C	8 hrs	7 days
25°C	4 hrs	4 days

POT LIFE

Temperature	5°C	15°C	25°C
Pot Life	240 Minutes	120 Minutes	25 Minutes

STORAGE

Shelf life: 6 months in unopened original package

Storage condition: should be protected from frost, direct sunlight and moisture. Keep containers in the temperature range between +10°C and +30°C.

Packing: Pre-batched Part A: 2.67 kg & Part B: 1.33 kg units, 4 kg at Total.

HEALTH AND 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.

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