

## ABADUR MP-25/45

### TWO-COMPONENT THIXOTROPIC EPOXY ADHESIVE MORTAR

ABADUR MP-25/45 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. It conforms to ASTM C881.

### FIELD OF APPLICATION

- As a structural adhesive and mortar for Concrete, Stone, Ceramics, Mortar, Bricks, Steel, Iron, Aluminum, Wood, Polyester, Epoxy, 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
- 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 MP-25/45 to the prepared substrate by trowel 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
- Best application temperature for ABADUR MP-25/45 is 25-45 °C.
- There should be no standing water on concrete surfaces.

## TECHNICAL PROPERTIES

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

## MECHANICAL PROPERTIES

Compressive Strength	60-70 N/mm <sup>2</sup>
Flexural Strength	30-35 N/mm <sup>2</sup>
Tensile Strength	18-20 N/mm <sup>2</sup>
Bond Strength to Concrete	2.5-3.0 N/mm <sup>2</sup> (concrete Failure)



**Pot Life:**

Temperature	25°C	40°C
Pot Life	40 Minutes	20 Minutes

**STORAGE**

Shelf life: 1 year in the original package

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

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

**HEALTH AND SAFETY**

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (available on request) containing physical, ecological, toxicological and other safety-related data.

**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.

