

**ABADUR MP-25/45****TWO-COMPONENTS SOLVENT FREE THIXOTROPIC EPOXY MORTAR**

ABADUR MP-25/45 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. 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, 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 aris/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 25-45 ° 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 10 °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.

موسسه استاندارد و تحقیقات صنعتی ایران  
تائیدیه صلاحیت آزمایشگاه همکارمرکز ملی تایید صلاحیت ایران  
ISO / IEC 17025مجوز صادرات  
به اتحادیه اروپا

استاندارد ملی ایران



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
- Do not apply this mortar when surface temperature is below 10°C.
- There should be no standing water on concrete surfaces.

### TECHNICAL PROPERTIES

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

### MECHANICAL PROPERTIES

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

### DRYING TIME

Temperature	Touch dry	Full cure
15°C	9 hrs	13 days
25°C	6 hrs	7 days
40°C	4 hrs	4 days



موسسه استاندارد و تحقیقات صنعتی ایران  
تائیدیه صلاحیت آزمایشگاه همکار



مرکز ملی تائید صلاحیت ایران  
ISO / IEC 17025



مجوز صادرات  
به اتحادیه اروپا



استاندارد ملی ایران



**POT LIFE**

Temperature	15°C	25°C	40°C
Pot Life	60 Minutes	40 Minutes	20 Minutes

**STORAGE**

Shelf life: 1 year in the original package

Storage condition: should be protected from frost, direct sunlight and moisture. Keep Gallons 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.

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.



موسسه استاندارد و تحقیقات صنعتی ایران  
تائیدیه صلاحیت آزمایشگاه همکار



مرکز ملی تائید صلاحیت ایران  
ISO / IEC 17025



مجوز صادرات  
به اتحادیه اروپا



استاندارد ملی ایران

تهران، خیابان سهروردی شمالی، خیابان شهید قندی غربی، ساختمان شماره ۱۲۴، واحد ۱ تلفکس: ۸۷۷۵۴

[www.abadgarangroup.com](http://www.abadgarangroup.com)

[info@abadgarangroup.com](mailto:info@abadgarangroup.com)



واحد تولیدی نمونه ملی