

ABABOND EP-20
Epoxy Bonding Agent for Concrete**DESCRIPTION**

ABABOND EP-20 is a solvent-free, two components concrete bonding agent, based on modified epoxy resins and especially designed hardeners. It provides a bond of far greater strength than the tensile strength of the concrete itself. Therefore, it is suitable for use wherever structural bonding of new to existing concrete is carried out. It meets all the requirements of the standard ASTM C882.

FIELD OF APPLICATION

- Bonding new to existing concrete and metals
- Anchoring in concrete
- prevent water penetration and fix leakages
- injectable in concrete cracks
- improves bonding cementitious flooring to old concrete

ADVANTAGES

- Highly effective on damp and dry surfaces
- Excellent initial and final mechanical strength
- Unaffected by moisture
- Easy to apply
- Solvent-free

SURFACE PREPARATION

All surfaces must be clean, free from frost standing water and all loosely adhering particles. Cement laitance must be removed and the surfaces to be treated must be mechanically roughened.

MIXING

Mix component A and B separately with a mixing paddle attached to a slow speed electric drill (max. 600 RPM). Add component B to component A and mix with the mixing paddle for 3 minutes until the material becomes smooth in consistency and color. Avoid entrapping air.

APPLICATION

After mixing apply directly to the prepared substrate by brush, roller or spray. On damp surfaces, ensure that it is well brushed in. Pour new concrete within specified open time, as long as material is still tacky.



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

www.abadgarangroup.com

info@abadgarangroup.com



واحد تولیدی نمونه ملی

DOSAGE

The optimum dosage of ABABOND EP-20 to meet specific requirements depends on porosity and roughness of the substrate. the dosage range for normal substrates is from 0.3 to 0.8 kg/m².

APPLICATION CONDITIONS/LIMITATIONS

Substrate Temperature	+ 10 °C - + 30 °C
Ambient Temperature	+ 5 °C - + 25 °C
Material Temperature	+ 15 °C - + 25 °C Condition the material by also storing at this temperature for 24 hours before use.
Dew Point	Substrate temperature during application must be at least 3°C above dew point to avoid condensation.

TECHNICAL PROPERTIES

Appearance	Part A: white viscose liquid Part B: black viscose liquid
Mixing Ratio (A:B)	3:1 (by weight)
Density (A+B)	1.4 ± 0.1 g/cm ³
Compressive Strength	70 (N/mm ²)
Flexural Strength	35 (N/mm ²)
Tensile Strength	20 (N/mm ²)

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

Material temperature	+15 °C	+25 °C	+40 °C
Pot life	45 min	30 min	20 min

PACKAGING

4 kg 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 upon request.

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
 تاییده صلاحیت آزمایشگاه همکار

 مرکز ملی تایید 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
info@abadgarangroup.com


واحد تولیدی نمونه ملی