

Epoxy 230 A+B

Two-component structural adhesive based on epoxy resin and special hardeners, for repair and bonding of concrete structures, even if damp

Epoxy 230 A+B is a two component epoxy structural adhesive, for bonding, grouting and structural repairs. It is in form of thixotropic soft paste, tollerates damp substrates and it is suitable for applications between +5 °C and +40 °C.



MAIN FIELDS OF USE

Epoxy 230 A+B can be used in different applications for repairs, reconstructions and grouting of concrete, to structurally bond different construction material, to cover and protect irons, to grout tirades, etc; it has an awesome thixotropy coupled with a soft consistency.

Its main fields of use are:

- Refurbishment of concrete, even with exposed irons
- Structural bonding of marble, steel, wood, stone
- Irons grouting
- Tirades grouting
- General interventions of concrete structures

For the application on different substrates please contact the technical service.

CHARACTERISTICS

- Awesome mechanical strengths
- Bonding on damp substrates
- Wide operating temperature, comprised between -30 °C and +85 °C
- Soft consistency coupled with good thixotropy
- Minimal application temperature +0 °C.
- Easy to prepare. Mixing ratio 1:1 in weight.



APPLICATION METHOD

Support preparation

Mechanically remove every detaching part. Clean carefully the application area in order to free it from powder, residues of surface treatments such as: detergents, oils, mineral or organic greases, waxes, gipsum and salts. The support needs to have an adhesive strenght of at least 1,5 MPa. In every case it is necessary to execute a surface preparation depending on the type of the sanding, milling or hammering.

Free and stagnating water coming from the substrate or from previous washing lavoration or from metereological events must be taken away or dried with adequate methods. The iron surfaces to be bonded must be cleaned and without oxides, rust, oils or other pollutants that would jeopardize the adhesion of the product and wishfully sanded according to SSPC-SP10 with grade Sa21/2.

Mixing preparation

Into a clean bin mix ideantical quantities (in weight or volume) of **component A** and **component B** and mix at low speed max 300 rpm) for at least 3 minutes with an appropriate mixer, until reaching a soft thixotropic paste, light grey, perfectly homogenous. It is advisable to pour the mix into an empty canister to mix it slowly for another minute.

Application

The substrate previously prepared must be dry or only slightly wet. Apply **Epoxy 230 A+B** creating a continuous thickness. If the bonding cannot be done immediately it is advisable to spray onto the fresh product roughly 3 kg/m² of quartz sand 0,8-1,2 in order to make it suitable for a subsequent reprise. Do not apply **Epoxy 230 A+B** on substrates with excess of water or onto freezing surfaces.

Make sure that the temperatures of the ambient, the substrate and the product during the application are comprised between +5 °C and +35 °C.

PRODUCT INFORMATIONS

Aspect	Grey paste
Volumic mass	1550 g/dm ³
Pot life at 22 °C	60 +/- 12 minutes
Max working time	at + 5 °C 150 minutes at +20 °C 90 minutes at +40 °C 40 minutes
Min. curing temperature	+ 0 °C
Mixing ratio in mass and volume	1:1
Packaging	Cans of 5 kg (A) + 5 kg (B): 10 kg total
Conservation	12 months in a dry and protected place in the undamaged packaging, at temperatures comprised between +5 °C and +35 °C

RESULTS

Characteristics	Test method	Results
Compressive strength	EN 12190	>50 MPa
Flexural strength	EN 12190	>20 MPa
Cut resistance	EN 12615	>8 MPa
Elastic module	UNI EN 13412	>2,5 GPa
Adhesion concrete on concrete	EN 12636	>2,8 MPa
Adhesion on concrete - water sensitivity	EN 12636	>3,5 MPa
Adhesion on dump concrete	EN 13578	>3,5 MPa
Adhesion on sanded steel	ASTM D4541	>7 MPa
Linear dilatation coefficient	UNI EN 1770	< 90 $\mu\text{m}/\text{mm}/^{\circ}\text{C}$
Linear Shrinkage	EN 12617-1	< 0,1%
Durability	EN 13733	Passes
Application temperature	-	From +5 $^{\circ}\text{C}$ to +35 $^{\circ}\text{C}$
Open time at 22 $^{\circ}\text{C}$ 50% R.U.	-	5 hours and 30 minutes
Hardening at 22 $^{\circ}\text{C}$ 50% R.U.	-	Deep hardening: 13h Complete hardening: 12d

WARNING

- Product for professional use
- Protect skin and eyes during application
- After the use clean the tools while the product is still fresh

SAFETY

Check for the last updated MSDS

NOTES

This TDS nullifies and substitutes the previous versions

The indications and performances given with this document are based on our present technical-scientific knowledge and in any case have to be considered as purely indicative due to the impossibility from our side to control the usage conditions. The final user must verify the suitability of the product to the specific case, taking every responsibility from the use. Our technical-commercial web guarantees a fast consulting and is at your disposal for every clarification and question about the use and lavoration of the products **licata SpA**.

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