



Very
High
Durability
Repair &
Prevention
System



Certified Quality System since **FEBRUARY 1993**

From Project to Jobsite

Structural adhesives and sealants

Tecnoepo R

GREY

STRUCTURAL ADHESIVE
For reinforcement plate fitting
For adherent mortar and concrete

CE approved – Certificate n. 1305 - CPD - 0808
EN 1504-4 table ZA.1a e ZA.1b

ADHESIVE FOR FILLING AND FIXING

Description

Epoxy-amino-ammino product, modified with reactive diluents, charged with inert silica, solvent free, formulated as adhesive – putty. In high thixotropy paste, two-components, which cures at room temperature.

Characteristics

Optimal application properties.
Medium reactivity
Very high adhesion properties.
Good mechanical properties.

use

For the grouting of cracks, cavities and discontinuities in general in concrete substrates, for the preparation of the supports for protection of waterproofing. For the installation of injection nipples, for sealing interventions, for bonding of concrete, stone, steel, bricks, wood etc ...

application

Tools: spatula or notched trowel.
Temperature of application: 10 ÷ 35 °C and relative humidity of max 60 %.
Total thickness: <10 mm.
Clean tools with : MEK or acetone or diluents for epoxy

METHOD OF USE

PREPARATION OF THE SUBSTRATE

Prior to proceeding with the application of the adhesive, it is necessary to verify the condition of the cementitious substrate: verifying if clean and absent of oil traces, fat, delaminating particles, free from cracks and discontinuities. Continue with the preparation of the substrate choosing the best suited procedure accordingly:

- elimination with proper equipment of the superficial dust when the substrate seems in good condition; recommended are vacuum aspiration and/or cleaning with water pressure;
- sandblasting or grinding in case of un-cohesive parts.

Avoid the application on substrates contaminated with oil and/or greases.

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APPLICATION

Make sure the room is well ventilated and follow the recommendations stated in the Material Safety Data Sheet on the use of PPE (Personal Protective Equipment).

Take out from the packaging the same quantity of comp A and comp B and mix until complete homogenization of the mixture with a suitable spatula.

Distribute the product uniformly with a spatula or, for big surfaces, with notched trowel.

IMPORTANT: If the ambient temperature and the support is below 15 °C is necessary to heat up separately the two components to a maximum temperature of 30 °C (e.g. in a water bath) in order to maintain a low viscosity and better applicability.

Do not apply at temperatures below +10 ° C.

APPLICATIVE CONDITIONS

Substrate temperature :+ 10°C / + 35 °C

Substrate humidity :≤ 3%

Ambient temperature :+10 °C / + 35 °C

Relative humidity :max 60%

Dew point :the substrate and the product shall be at a temperature minimum 3°C higher than the dew point to avoid the risk of condensation.

PACKAGING

☒ supply - kg

Component	a	b	a+b
Pail	1,5	1,5	3

STORAGE

Store the original and unopened packaging at a temperature between + 5°C and + 35°C. Product can be kept 12 months from the production date.



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TECHNICAL CHARACTERISTICS

APPLICATIVE CHARACTERISTICS at 20 ± 2 °C	Test method	Unit of measurement	Typical values
Mixing ratio in weight	-	A : B	1,5 : 1,5
Solid content in weight	-	%	~ 100
Consumption	-	Kg/m ² /mm	~ 1,75
Specific weight	EN ISO 2811-1	kg/l	~ 1,75
Pot life	EN ISO 9514	minutes	100 ± 15
Workability time of the mixture	EN ISO 9514	minutes	~ 110

PERFORMANCE CHARACTERISTICS	Test method	Unit of measurement	Typical values	Limit values according EN1504-4
Open time determination	EN 12189	minutes	~ 100	-
Thermal expansion coefficient	EN 1770	per °C	29,30 x 10 ⁻⁶	≤ 100 x 10 ⁻⁶
Total shrinkage	EN 12617-1	%	< 0,01	≤ 1
TG – glass transition temperature (48 h at 23 °C)	EN 12614	°C	67,7	≥ 40
TG – glass transition temperature (24 h at 23 °C + 24 h at 60 °C)	EN 12614	°C	67,8	-
Shear strength, inclined, in compression	EN 12188	N/mm ² at 50 °C N/mm ² at 60 °C N/mm ² at 70 °C	> 70 > 70 > 80	≥ 50 ≥ 60 ≥ 70
Adhesion by direct pull-off	EN 1542	N/mm ²	> 16	≥ 14
Slant shear strength	EN 12615	N/mm ²	> 10	≥ 6
Adhesion concrete on concrete	EN 12636	-	Concrete failure	Concrete failure
Flexural strength	EN 12190	N/mm ²	> 20	-
Compression strength	EN 12190	N/mm ²	> 50	≥ 30
Elasticity modulus in compression	EN 13412	N/mm ²	~ 7500	≥ 2000
Durability	EN 13733	-	passed	Passed/not passed

The above data are based on our actual and most experienced practical and laboratory knowledge and the results are collected from application of the product in different situations. Tecnochem Italiana does not assume any responsibility regarding inadequate or negative performance as a result of improper use of the product or for defects deriving from factors or elements other than the quality of the product including improper storage. The technical characteristics and performance mentioned in this datasheet are updated periodically. The revision dates and number of revision of the datasheets are listed in the table below. Eventual variations are traceable on our website www.tecnochem.it where the most updated datasheets can be retrieved.

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