



UNI EN ISO 9001:2008
Quality System Certified Company



TECHNICAL DATA SHEET PRODUCT

EPOXY GLASS FLUID

**EPOXY ADHESIVE, TRANSPARENT,
"glass effect"
without added solvents**

Bi-component epoxy adhesive transparent and practically odourless. Formulated for the permanent bonding of granites and marbles, also of very light colours, it is suitable for bonding any kind of natural or engineered stone also to heterogeneous materials as it performs a good and very good adhesion on wood, metal, glass, concrete.

After hardening, it is characterized by a very high transparency and vitreous structure.

Adheres even on difficult surfaces or humid materials where the polyester adhesive have poor or null adhesion.

Its negligible shrinkage allows the reparation of deep micro-cracks and hollows by only one operation.

FIELDS OF USE

Bonding of any kind of stone and ceramic materials, both natural and synthetic, between them or to heterogeneous supports such as metal, wood, glass, concrete:

CHARACTERISTICS

- Very good adhesion between different materials and supports
- Adhesion on humid materials
- Very high transparency
- Resistant to the atmospheric agents, acid rains, sea water
- Resistant to the solvents, basic environment (so, suitable for concrete) and acids
- Negligible yellowing
- Almost null shrinkage
- Practically odourless

WARNING

- Avoid the use and the bonding at temperatures lower than +10°C (50°F)
- It doesn't adhere to silicon
- It doesn't adhere to polyethylene
- It doesn't adhere to teflon
- It doesn't adhere to some plastics
- the action of the sunrays and of sources of UV rays may be cause of yellowing or opacification of the product

HOW TO USE

PREPARATION OF THE SURFACES. Clean the surfaces carefully and remove any trace of dust, concrete, gypsum, greasy substances, etc. Better adhesion if the support is slightly roughened.

PREPARATION OF THE TEXTURE. Mix carefully the component A and the component B in the exact ratio as indicated A:B=100:50. It is suggested the mixing of small quantity (max. 400-500 grams) to avoid a too much short time of use before the hardening reaction starts.

APPLICATION. Apply the obtained texture on the clean and dry support by using a toothed putty knife. In case of application to the iron, it is advisable the iron is sandblasted or anyway roughened.

After 8 to 10 hours it is possible to move the bonded piece and after 24 hours from the application the piece can be eventually grinded/polished

IMPORTANT

- Do not use adhesive already in gelling phase
- Do not put again into the can the adhesive not used.
- Store at temperature between +10°C and +35°C (50°F and 95°F)
- The hardening is faster with the high temperatures and slower with the low temperatures

MIXING RATIO

Component **A** : Component **B** = **100 : 50**

THICKNESS

The best adhesive characteristics are obtained with thicknesses of adhesive from 0.3 to 1.0 mm



PACKAGING

Set A+B of **1,5 kg.** net (Component **A = kg. 1,000** Component **B = kg. 0,500**)

STABILITY

The product kept into the original packing, intact and sealed, and stored in dry place at temperature of +15°C and +35°C (50°F - 95°F), has a stability of 12 months. Protect from frost the stored cans/tins

TECHNICAL DATA

	component A	component B
Physical state	liquid	liquid
Colour	transparent	transparent
Odour	characteristic (light)	characteristic (light)
Density at 20°C (68°F)	1,17 ± 0,05 g/cm ³	0,95 ± 0,05 g/cm ³
Viscosity at 25°C (77°F)	4.500 - 6.000 cPs	450 - 650 cPs
Toxicity	irritant	corrosive
Flammability	no	no
Ratio of catalysis	component A : component B = 100 : 50	
Aspect of the texture	viscous liquid	
Workability (A = 100 g. + B = 50 g.)	60-70 minutes at 10°C/50°F, 20-30 minutes at 20°C/68°F, 10-20 minutes at 30°C/86°F	
Workability (A = 300 g. + B = 150 g.)	15-20 minutes at 20°C (68°F)	
Application temperature	The correct reaction of catalysis (hardening) needs temperature of application higher than +10°C (50°F)	
Hardening time at 20°C (68°F)	3 to 4 hours abt.	
Catalysis totally completed after	7 days	

Mechanical characteristics

FLEXURE maximum load	N/mm ²	103
FLEXURE elastic modulus	N/mm ²	3700
COMPRESSION attrition load	N/mm ²	110
COMPRESSION elastic modulus	N/mm ²	3010
TRACTION breaking load	N/mm ²	60
TRACTION breaking elongation	%	1,2
HDT	°C (°F)	70 (158)
HARDNESS	Shore D15	81

Chemical resistance

	Kind of solution	Variation in weight
variation in % weight of diskettes after 21 days soaking at 25°C (77°F)	Sodium hydroxide 10%	<0,01%
	Hydrochloric acid 10%	<0,01%
	Gasoline	<0,01%
	Olive oil	<0,01%
	Sodium chloride 10%	<0,01%

TEST

Always effect preliminary tests for verifying the suitability of the product with the support to be bonded/treated and the degree of adhesion effectively achieved under the specific conditions of use and for checking the correct use of the product and particularly in case of new and not experienced applicators (workers) and in case of new typologies of materials.

LIMITED LIABILITY

The information provided derives from bibliography or from our laboratory experience and should be understood as broad indications and not as a formal guarantee. In particular, the liability for defective products, once the defect has been ascertained, is limited to the product purchase price only. We do not undertake any liability for implicit or explicit damage due to use of the product beyond our direct control.

ALWAYS EFFECT A PRELIMINARY TEST BEFORE THE APPLICATION