GENERAL CHEMICAL ENGINEERING

UNI EN ISO 9001:2008
Quality System Certified Company

Technical Data Sheet
PRODUCT

UNIBLOCK 110 H

SUPERIOR HYBRID ADHESIVE SEMISOLID

CHARACTERISTICS

CHEMICAL NATURE
Bi-component adhesive of superior class based on hybrid resins (mix polyester and vinylester).

ASPECT
Thixotropic paste of neutral colour (transparent-opaque).

FIELD OF APPLICATION
Bonding of synthetic agglomerates and artificial stones, marble, granite and ceramics where it's important the final aesthetic look of the joint and when an adhesive of high quality is needed.
For its consistence and aspect product is suggested for crystalline products and marbles and granites "multicolor"

PROPERTIES
Good adhesion to any kind of natural and artificial stone (provided with sufficient porosity).

HARDENING
By adding a 3% of catalyst in paste, the product hardens in 10 minutes about (at 23°C/73.4°F)
The low exothermal peak, developed during the hardening phase, allows modest shrinkage, among the lowest of its category. The glue, once hardened, stands to temperature also higher than 80°C (176°F) without softening.

HOW TO USE
- The material to be treated must be clean, dry, free from dust or greasy substances and friable parts.
- Polished surfaces must be previously sanded.
- Use at it is or mix with the proper colouring pastes (max 3%) or with the powder of the same stone.
- Mix carefully with a max. 3% in weight of hardener/catalyst. The texture remains workable for a short time that can vary according to the quantity of hardener, the temperature, the thickness, etc.
- Apply to one or both the surfaces of the joint and unite them with a light pressure
- Polished surfaces must be previously sanded.
- The hardened product just maintains a semi-transparent appearance with white shades, little or not visible in the thin layer
- 3 hours about after hardening (at 23°C/73.4°F), the material can be worked (drilled, grinded, polished, etc.)
- Use solvent for cleaning the work tools.

Note
The persistence of a slight stickiness subsequent gluing, allows for a significant increase in adhesion

- The maximum adhesive effect occurs after 24 hours

Note
After about a week, the colour of the hardened putty acquires a shade that tends to light yellow low or not visible in thin layer.

SPECIFIC SUGGESTIONS
- *During the work and during the hardening process, it is developed styrene; protect the hands by impermeable gloves and air the room in order to reduce the vapours inhalation. More information about safety by consulting the Material Safety Data Sheet.*
- *High temperatures (>30°C / >86°F) or quantity of hardener higher than 2% accelerate the reaction and reduce the adhesion and can cause a strong darkening of the adhesive.*
- *Low temperatures (<5°C / <41°F) or quantity of hardener less than 1% slow down the reaction and can cause superficial unctuousness.*
- *Freezing and thawing, strong and frequent thermal or humidity changes reduce the chemical resistances.*
- *The hardened adhesive can be removed only mechanically.*

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TECHNICAL DATA				
ASPECT	Neutral paste, colour slightly straw (Gardner <2), more evidenced after gardening			
DENSITY	1.10 g/cm^3			
VISCOSITY	200000-230000 cP			
HARDENING TIME (100 grams of adhesive)	at 20°C / 68°F		with 2% hardener	
	1% hardener	12-16 minutes	at 10°C / 50°F	14-18 minutes
	2% hardener	6-9 minutes	at 20°C / 68°F	6-9 minutes
			at 30°C / 86°F	3-4 minutes
PEAK	125-150°C / 257-302°F (maximum temperature reached during hardening process)			
HDT	105°C / 221°F (High Distorsion Temperature)			
SHRINKAGE	max 5%			

STABILITY

UNIBLOCK 110 must be kept closed into the original can in dry and cold place and sheltered from the direct sunrays. These conditions respected the product is stable and it can be used for 6 months and some time more. Storage temperatures higher than 30°C / 86°F reduce the stability in the time.

SAFETY

Keep out from the reach of children. All GENERAL products are provided with the specific Material Safety Data Sheet.

PACKAGING

1 L. (1 carton cont. no. 4 cans of 1 L. and no. 4 hardeners)

LIMITATION OF LIABILITY

The data provided derive from published information or from our own laboratory tests. The information provided here must be considered as a guideline and not as any form of performance guarantee. The users must effect on-site tests to verify the suitability of the product for the requested and specific application or use. Since the application of the product is beyond the control of the manufacturer or supplier, our liability for defective products, when verified, is limited to the refund of the purchase price.

A PRELIMINARY TEST IN A SMALL AREA IS ALWAYS RECOMMENDED BEFORE THE APPLICATION

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