GENERAL CHEMICAL ENGINEERING

UNI EN ISO 9001:2015
Quality System Certified Company


SCHEDA TECNICA
PRODOTTO

# UNIBLOCK 110
fluido

**SUPERIOR HYBRID ADHESIVE FLUID**

## CHEMICAL VATURE
Bi-component superior adhesive based on hybrid resins

## ASPECT
Semi-opaque transparent viscous liquid

## FIELD OF USE
Permanent bonding and stuccoing of synthetic agglomerates and artificial/engineered stones, marble, granite, natural stones and ceramics

## PROPERTIES
- excellent mechanical characteristics
- excellent chemical resistance even on alkaline substrates
- good adhesion on any type of natural or artificial stone (provided it has sufficient porosity)

## HARDENING
The product hardens quickly (10 to15 min.) and leaves a dry surface, without greasiness, for easily grinding/polishing.
The low exothermic peak developed during hardening allows modest shrinkage, the lowest among the category

## HOW TO USE
- The material must be clean, dry, free from dust or grease or alien or friable substances.
- Mix thoroughly with 2% hardener. The mixture remains workable for a short time (3 to 5 min.); time that varies according to the amount of adhesive and hardener used, the temperature, the thickness, etc.
- After 30 to 40minutes after the hardening, the material can be worked (drilled, honed, polished, etc.)
- Clean work tools with solvents
- Polished surfaces must be sanded beforehand

## SPECIFIC SUGGESTIONS
- Styrene is developed during processing and during hardening, protect hands with impermeable gloves and ventilate the rooms to reduce the inhalation of vapours. For further information consult the safety data sheet.
- High temperatures (>30°C/>86°F)) or quantity of hardener over 2%, accelerate the reaction and decrease the adhesion and may 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 may cause superficial greasiness
- Frequent freezing and thawing cycles and frequent changes in temperature or humidity reduce the mechanical resistance
- Il mastice indurito può essere rimosso solo meccanicamente

## TECHNICAL DATA

| | | | | |
|---|---|---|---|---|
| APPEARANCE | Neutral viscous liquid, slightly straw-color (Gardner <2), more evident after hardening | | | |
| DENSITY | 1,05 g/cm$^3$ | | | |
| VISCOSITY | 3000-5000 cP | | | |
| HARDENING TIME (100g of adhesive) | **a 20°C / at 68°F** | | **con 2% di induritore / with 2% hardener** | |
| | 1% hardener | 20-25 minutes | a 10°C / at 50°F | 25-30 minutes |
| | 2% hardener | 15-20 minutes | a 20°C / at 68°F | 15-20 minutes |
| | | | a 30°C / at 86°F | 8-15 minutes |
| PEAK | 125-150°C / 257-302°F (maximum temperature reached at cure) | | | |
| HDT | 105°C / 221°F (thermal distortion temperature) | | | |
| SHRINKAGE | 3% circa/about | | | |



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## MECHANICAL CHARACTERISTCS

| PROPERTIES | value | unit | method |
|---|---|---|---|
| TENSILE STRENGTH | 90 | MPa | ISO 527-2 |
| ELASTICITY MODULUS | 3.4 | MPa | ISO 527-2 |
| ELONGATION AT BREAK | 6.1 | % | ISO 527-2 |
| FLEXURAL STRENGTH | 150 | MPa | ISO178 |
| BENDING STRENGTH | 6.5 | % | ISO178 |
| IMPACT RESISTANCE | 28 | $Kj/m^2$ | ISO 179 |

## STABILITY

UNIBLOK 110 Fluid must be kept closed into original cans in a cool, dry place away from direct sunlight. In these conditions it is stable and can be used for 6 months or more.
Storage temperatures above 30°C / 86°F reduce the stability over time.

## SAFETY

For all GENERAL products, the relevant safety data sheet is provided..

## NOTE

There are many factors that influence the hardening process and the applications of adhesive adhesive are many and varied; therefore the present information - which are based on bibliography, our studies and laboratory tests - must be understood as valid indications in principle and do not constitute a specific or a guarantee. The user is always required to verify, in each specific application, the suitability of the adhesive with the required purpose.

**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. Liability for defective products, when verified, is limited to refund of the purchase price since application of the product is beyond the control of the manufacturer or supplier.

**A TEST IN A SMALL, HIDDEN, AREA IS ALWAYS RECOMMENDED BEFORE THE APPLICATION**



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