



UNI EN ISO 9001:2008
Quality System Certified Company



TECHNICAL DATA SHEET
PRODUCT

GENERAL
TRANSPARENT

TRANSPARENT POLYESTER ADHESIVE/GLUE
FLUID and VERTICAL/SOLID
for MARBLE, TERRAZZO, NATURAL STONES

DUAL- COMPONENT POLYESTER RESIN BASED ADHESIVE FOR MARBLE, STONE, TERRAZZO

Polyester resin adhesives are chemically inert and offer extended durability, feature high-reactivity rapid hardening no withdrawal from substrate materials during reticulation, and a modest shrinkage during hardening (1 to 5%). This adhesive is the culmination of GENERAL® Chemical Engineering's extensive knowledge and experience in the use of polyester resins with marble and natural stone.

GENERAL is one of the highest quality products available on the market today because are chosen only very high quality rough materials and are selected only suppliers who confirm strict criteria.

This quality control process assures consistency of the physical and mechanical properties of the product. The mineral fillers used in GENERAL adhesives are carefully monitored to ensure purity, inertia and proper granular dimensions which together form a durable and consistent product.

Continuous research and innovation enable GENERAL® Chemical Engineering to respond to the needs of the market with a wide range of products.

GENERAL is available in the following formulations:

TRANSPARENT FLUID (TF)
TRANSPARENT VERTICAL/SOLID or/and SEMISOLID (TV)

TECHNICAL DATA

PHYSICAL STATE	paste (TV)	viscous liquid, fluid (TF)
COLOUR	transparent	
DENSITY at 25°C (77°F)	1,22 gr/cm³ (TV)	1,15 gr/cm³ (TF)
VISCOSITY at 25°C (77°F)	250.000 - 300.000 cPs (Vertical/Solid) 150.000 - 250.000 cPs (Semisolid) 1.000 - 1.500 cPs (Fluid)	
STABILITY	6 months	in well closed original container, stored in dry place at temperature of 15-25°C (59-77°F)

PREPARATION

For best results mix 2% to 3% of the catalyst (dibenzoyl peroxide) with the adhesive; the paste formula make easy to measure. A homogeneous mixing will facilitate uniform catalysis. The catalysis rate is effected by temperature and by the proportion/quantity of catalyst. An excess of hardener/catalyst will increase the hardening speed, but weakens the adhesive seal. The surfaces to be treated/glued must be clean and dry; porosity and light roughness of the surface favour the best adhesion.

NOTE

The hardened/cured adhesive is completely workable (grinded, polished, sanded, buffed etc.) after 4 to 5 hours (better is after 24 hours).

Laboratory tests evidence that the adhesive, once hardened and properly cured, resists also to temperatures lower than 0°C (32°F). Because of the difference of dilatation or/and contraction between the support (marble, granite, stone), temperature well below 0°C (32°F) can anyway be cause of weakening or separation of the material.



MIXING AND USING TIME - HARDENED PASTE MECHANICAL CHARACTERISTICS

		TRANSPARENT FLUID	TRANSPARENT VERTICAL
MIXING TIME	minutes	1	1
APPLICATION TIME (Pot Life)	minutes	1-4	1-4
GEL TIME (after Pot Life)	minutes	5-7	5-7
SHRINKAGE	%	2,5	2,4
DISTORTION TEMPERATURE (HDT)	°C (°F)	> 80 (176)	> 80 (176)
TENSILE STRENGTH (ASTM D 638)	MPa	60	53
TENSILE ELASTICITY MODULUS	MPa	3200	3050
BREAKING ELONGATION	%	2,3	2,2
BENDING STRENGTH (ASTM D790)	MPa	92	90
BENDING ELASTICITY MODULUS	MPa	3400	3220

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. 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 refund of the purchase price.

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