GENERAL® CHEMICAL ENGINEERING

UNI EN ISO 9001:2008
Quality System Certified Company

TECHNICAL DATA SHEET
PRODUCT

K K W
TRANSPARENT

SPECIAL POLYESTER ADHESIVE
of VERY HIGH ADHESION CAPACITY

KKW, fruit of the experience and continuous research of GENERAL® Chemical Engineering in the field of the polyester adhesives, is the solution of the problem of seal and resistance not resolvable by using the common polyester adhesives.
All the laboratory tests confirm this superior capacity.
Thanks to the superior quality of the resins used and to a balanced formulation, KKW combines ease of use and application quickness of the common polyester adhesives with higher seal and grip than those obtainable with the traditional polyester glues actually on the market.
This is the reason why is the selected adhesive for granite and for all those smooth and low porosity materials and for all the situations where the traditional adhesives can meet difficulty.
Thanks to its low shrinkage coefficient KKW is self-levelling, so it doesn't need further applications to restore the previous stuccoing application because it doesn't has significant loss of volume.

TECHNICAL DATA

PHYSICAL STATE	**paste** (semi-solid),	**viscous liquid** (fluid),
COLOUR	**transparent matt**	**transparent**
DENSITY at 25°C (77°F)	**1,22** gr/cm³ (semi-solid)	**1,15** gr/cm³ (fluid)
STABILITY	**6 months** in well closed original container, stored in dry place at temperature of 15-25°C (59-77°F)	

PREPARATION

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

MIXING and HARDENED/CURED MASS CHARACTERISTICS

MIXING TIME		minutes	1
APPLICATION TIME		minutes	1 – 4
GEL TIME		minutes	5 – 7
SHRINKAGE COEFFICIENT		%	0.60
DISTORTION TEMPERATURE		°C (°F)	>80 (>176)
TENSILE STRENGTH	(ASTM D638)	mPas	50
TENSILE ELASTICITY MODULUS		mPas	3200
BREAKING ELONGATION		%	2.1
BENDING STRENGTH	(ASTM D790)	mPas	90
BENDING ELASTICITY MODULUS		mPas	3400
WATER ABSORPTION		g/kg	< 0.5

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KKW adhesive is the answer to solve the gluing and seal problems even on materials having poor porosity or micro-porosities. The **gres porcelain tiles** (fully vitrified homogeneous ceramic tiles) is included in this material class. Tests effected in our laboratory and c/o ceramic tiles factories evidenced adhesion and seal values comparable to those obtained with the granite.
Tests have been effected only with some kind of gres porcelain tiles and, because of the assortment of kinds on the market, the user must be always verify the compatibility and suitability of the adhesive with the specific material to be treated/glued.
The tests we have effected must be considered as a guideline for the user, as the data shown on this technical data sheet, and not represent guarantee of the results strictly depending on various factors (cleaning of the material, time of catalysis, right mixing etc.)

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 the refund of the purchase price.

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

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