

TECHNICAL DATASHEET

ergo.[®] 7410

(ergo.[®] 7408 resin + ergo.[®] 7409 hardener)

Description

ergo.[®] 7410 is a transparent, fast curing epoxy resin. The adhesive is most appropriate for bonding of metals, ceramic, glass, rubber and hard plastics. It is often used as an repair adhesive, for cable potting, for jewellery manufacture or as an structural adhesive in mechanical engineering.

Advantages

- Fast curing
- Excellent adhesion on various substrates (surfaces)
- Transparent
- Solvent-free, good chemical resistance

Physical properties (liquid product)

Chemical base	epoxy resin		
Curing System	2-component-system		
Mixing ratio (v:v)	2 : 1 (<i>resin : hardener</i>)		
Mixing ratio (w:w)	100 : 94,9 (<i>resin : hardener</i>)		
Shelf life	36 month at 2 – 30 °C		
Viscosity (mixture)	8'000 – 11'000 mPa•s		
Density	Mixture	1.1 g/cm ³	
Colour	Resin	ergo. [®] 7408	clear
	Hardener	ergo. [®] 7409	yellowish
	Mixture		clear

Curing properties

Pot life at 23°C; ~5g	~ 3.5 minutes
Fixture time at 23°C (> 1 N/mm ²)	~ 7 minutes
Final strength at 23°C	~ 48 hours
Functional strength (> 10 N/mm ²)	
at 23°C	~ 60 Minutes
at 40°C	~ 35 Minutes
at 60°C	~ 10 Minutes
at 100°C	~ 2 Minutes

Physical properties (cured product)

Thermal range - 60 °C up to 100 °C
Glass transition point 52°C

Modulus (DIN EN ISO 178) 1450 MPa
after 7 days at 23°C

Tensile strength (ISO 527 1A) ~ 46 N/mm²
after 7 days at 23°C

Elongation at break (ISO 527 1A) ~ 6 %
after 7 days at 23°C

Shore D hardness ~ 75

Tensile shear strength acc. to DIN EN 1465

Curing: 16 hours at 40 °C, 24 hours at 23 °C; test temperature: 23 °C; metals corundum blasted / plastics cleaned

Steel > 20 N/mm²

Stainless steel > 17 N/mm²

Aluminium > 13 N/mm²

Brass > 15 N/mm²

Copper > 15 N/mm²

GRP, epoxy ~ 14 N/mm²

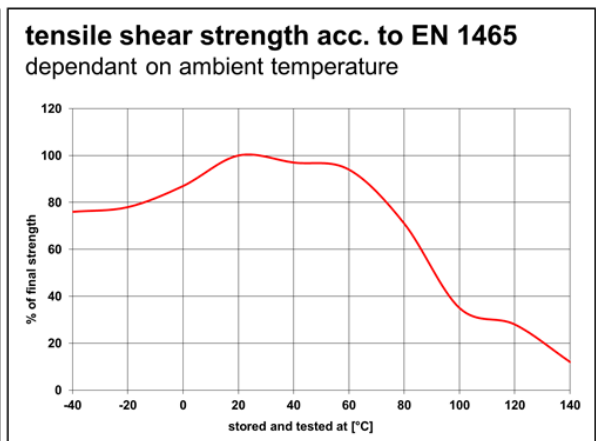
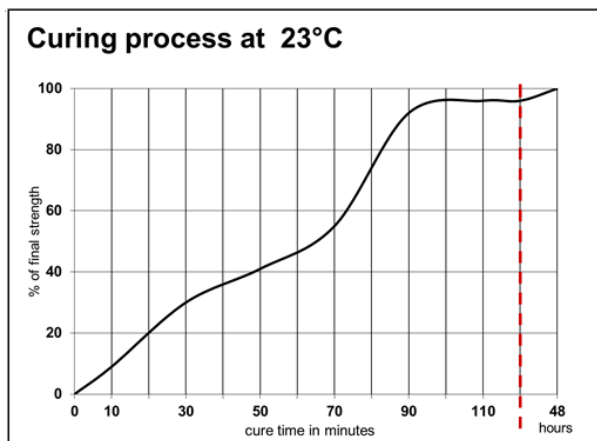
ABS ~ 4 N/mm²

Polyamide 6 ~ 4 N/mm²

PC ~ 4 N/mm²

PMMA ~ 3 N/mm²

PVC ~ 4 N/mm²



Precautions

For your own safety, please refer to the information of the concerned MSDS and for the correct handling the “user instructions”.

The information in this data sheet is based on the results of our research and experience. However, the suggestions herein concerning the use, application, and processing of the products (collectively, „the methods“) **are non-binding recommendations only**. It is the user’s sole responsibility to determine the suitability and safety of these methods, based on the user’s particular purpose in using the products. Before relying on the reliability and safety of any parts that are bonded using the products, it is extremely important that the user test the reliability and safety of the parts that are bonded. Failure to do so could result in serious personal injury. Because of the use of the products are within the purchaser’s sole control, Kisling Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability or fitness for a particular purpose, arising from the sale or use of the products described herein. Kisling Corporation specifically disclaims any liability for consequential, incidental, or other damages of any kind, including lost profits. Kisling Corporation’s liability for damages shall not exceed the purchase price of the products used.

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