

TECHNICAL DATASHEET

ergo.[®] 7415

(ergo.[®] 7413 resin + ergo.[®] 7414 hardener)

Description

ergo.[®] 7415 is a high strength and fast curing product with good adhesion to metals, ceramic, glass, rubber, hard plastics and a wide range of other common materials. Its pasty viscosity may help in specific applications.

Advantages

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

Physical properties (liquid product)

| | | | |
|--|----------|-------------------------|--|
| Chemical base | | | epoxy resin |
| Curing System | | | 2-component-system |
| Mixing ratio (v:v) | | | 1 : 1 (<i>resin : hardener</i>) |
| Mixing ratio (w:w) | | | 100 : 93,3 (<i>resin : hardener</i>) |
| Shelf life | | | 24 month at 2 – 30 °C |
| Viscosity acc. to DIN EN 12092 at 25°C, cone MK25, D=35s-1 | | | |
| | Resin | ergo. [®] 7413 | 135'000 – 145'000 mPa•s |
| | Hardener | ergo. [®] 7414 | 30'000 – 40'000 mPa•s |
| Density | Mixture | | ~ 1.21 g/cm ³ |
| Colour | Resin | ergo. [®] 7413 | white |
| | Hardener | ergo. [®] 7414 | black |
| | Mixture | | grey |

Curing properties

Pot life at 23°C; ~5g ~ 3.5 minutes
Fixture time at 23°C (> 1 N/mm²) ~ 6 minutes
Final strength at 23°C ~ 48 hours

Functional strength (> 10 N/mm²)

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
Curing: 16 hours at 40 °C

Modulus (DIN EN ISO 178) ~ 2000 MPa
Tensile strength (ISO 527 1A/10) ~ 53 N/mm²
Elongation at break (ISO 527 1A/10) ~ 9 %

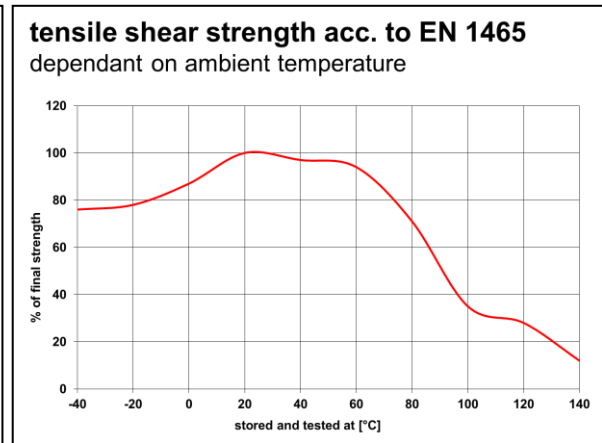
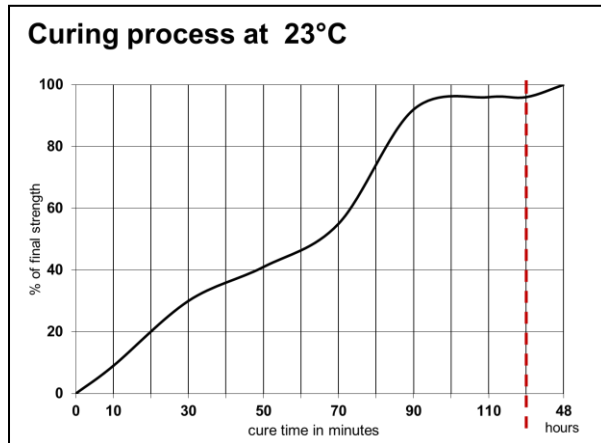
Shore D hardness ~ 75
Curing: 16 hours at 40 °C

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 > 18 N/mm²
Stainless steel > 15 N/mm²
Aluminium > 13 N/mm²
Brass > 14 N/mm²
Copper > 14 N/mm²

GRP, epoxy >10 N/mm²
ABS ~ 4 N/mm²
Polyamide 6 ~ 3 N/mm²
PC ~ 4 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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