

TECHNICAL DATASHEET

ergo.[®] 7430

(ergo.[®] 7428 resin + ergo.[®] 7429 hardener)

Product - Description

Universal, high strength product with excellent adhesion to metals.

May be used also for other materials like glass, ceramic and hard plastics.

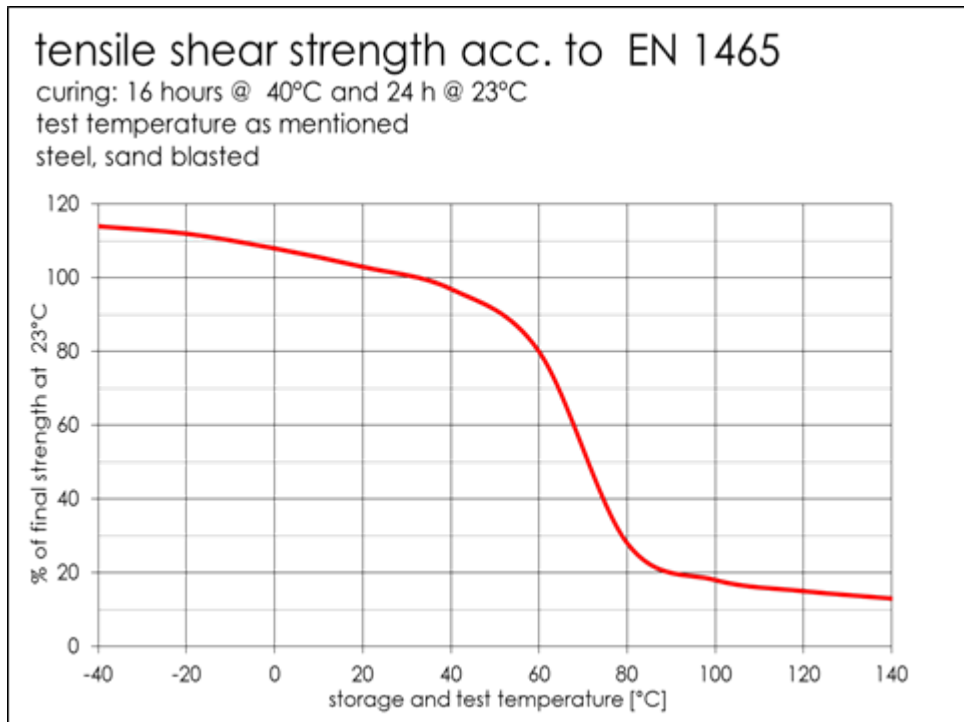
ergo.[®] 7430 fulfills the requirements according to DIN EN 45545-2 chart 5, R1, R7 and R17 with HL1-3.

Physical Properties - Liquid product

Chemical base	Epoxy resin
Curing system	2-component-product
Viscosity	pasty
Density (mixed product)	1,05 g/cm ³
Color (mixed product)	grey
Shelf life	24 month at RT
Pot life of a 20 g mixture:	40 – 50 minutes at 23°C
Fixture time (> 1 N/mm ²) at 23°C	4 hours
Functional strength (> 10 N/mm ²) at 23°C	8 hours
Final strength at 23°C	3 – 4 days

Physical Properties - Cured product

Glass transition temperature (16 hours at 40°C)	56 °C
Shore D - hardness (curing 16 hours at 40°C)	70 – 75
Tensile shear strength acc. to EN 1465, metals sandblasted (curing 16 hours at 40°C, tested at 23°C)	
Steel	~ 30 N/mm ²
Stainless steel	~ 26 N/mm ²
Aluminum	~ 23 N/mm ²
Copper	~ 21 N/mm ²
Brass	~ 24 N/mm ²
GFRP, Polyester	> 7 N/mm ² (glass fibre failure)
GFRP, Epoxy	> 12 N/mm ²
Thermal range	- 60° C to + 100° C (140 °C short term)



Application

Both components must be mixed in advance. The best mixture ratio is 1:1. Using the double-cartridge system with static mixture tube is very easy and avoids failures. The surfaces must be clean, which means, dry and free of dust and grease. For this reason it is recommended to use either the ergo.[®] Cleaner 9190 (for metal) or the ergo.[®] Cleaner 9195 (for plastics).
 Curing at room temperature - accelerating possible by temperature increase.

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.

TIS_77430_e/OT/27.01.2020