

EPY®



Description

EPY® is a special, two component, Polish-made, casting compound developed as a chocking material destined for use everywhere where precise and stable seating of machinery is required, especially on steel or concrete foundations. A modern formula ensures excellent mechanical and technological properties, which guarantee a wide range of applications in shipbuilding and industry. **EPY®** is approved by all major Classification Societies and other supervisory institutions. **EPY®** is made in accordance with the ISO 9001:2015 standard.

Application

EPY® is designed for use as a chocking material. Thanks to high mechanical and chemical resistance, **EPY®** is used as seating for main engines, gears, power generators, compressors, bearings, stern tubes, tanks and many other naval machinery. **EPY®** is ideal for final positioning of heavy industrial objects such as compressors, fans, extruders, turbines, crane rails, large-size bearings, bridge bearings and many other machinery and steel constructions.

Features

EPY® compound is easy to use, has good castability and negligible shrinkage, and in this way compensates for all irregularities of machine bedplates and foundation surfaces, and doesn't require machining of foundations. After curing, **EPY®** is characterized by very high compressive strength, low creep in a wide temperature range and chemical and mechanical resistance. Application of EPY compound for seating machinery yields a more uniform distribution of load between chocks, a high degree of isolation against mechanical vibration and structural sound and against kinetic excitations.

Mechanical properties

Coefficient of linear thermal expansion	(40-48) x 10 ⁻⁶ 1/K	ASTM D-696
Linear shrinkage	2 x 10 ⁻⁴ mm/mm	ASTM D-2566
Compressive strength	169 N/mm ²	ASTM D-695
Compressive modulus of elasticity	4915 N/mm ²	ASTM D-695
Tensile strength	45,9 N/mm ²	ASTM D-638
Charpy impact	6,4 kJ/m ²	ASTM D-256
Hardness - Barcol	52 °Barcola	ASTM D-2583
Friction coefficient	0,3-0,8	
Specific gravity	1,59 kg/dm ³	
Creep @ 70 °C	0,011 mm @ 3,4 N/mm ² 0,012 mm @ 6,9 N/mm ² 0,015 mm @ 13,8 N/mm ² 0,058 mm @ 27,6 N/mm ²	ASTM D-621
Fatigue strength @ 10 Hz, 5 N/mm²	10 x 10 ⁶ cycles @ 60 N/mm ²	DIN 50100
Pot life	30 min. @ 21 °C	
Cure time	72 hours @ 10 °C 48 hours @ 15 °C 24 hours @ 20 °C	

Market form

Two component sets consist of:	3,2 kg / 2,0 dm ³
metal cans (base)	6,4 kg / 4,0 dm ³
and HDPE bottles (hardener)	1,07kg/0,67dm ³

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