

DEPOL KS-1 is pre-accelerated high performance bonding composite based on high quality vinyl ester resin. The connecting seams formed with this composition acquire exceptional durability and crack resistance. It is used for bonding fiberglass laminates together in the process of building the final product, as well as for bonding with various materials (metal surfaces, plywood, chipboard, ceramics, polymer concrete, etc.)

GENERAL PROPERTIES AND FIELD OF APPLICATION

The joint formed with the help of this composite features high resistance to vibration and severe live loads within a wide range of temperatures.

The composite has extensive marine and automotive industry application, and can be also used for manufacture of pipes, tanks, septic tanks and sewerage pumping stations.

The thickness of the bonding joint can vary from 0,3 mm up to 20 mm with no risk of cracking after curing.

The composite cures without sagging even at the thickness of 20 mm

The composite should be applied under the following conditions: temperature 18-25⁰C, ambient humidity 70%. Methyl-ethyl ketone can be used as the composite hardener (MEKP catalyst). Before the glue application the surfaces must be degreased.

1. GLUE CHARACTERISTICS WHEN SUPPLIED

Properties	Unit of measurement	Characteristic	Method
Appearance		Non transparent grey pinkish substance	Visual
Gel time at 20 ⁰ C 2% (MEKP)	minutes	20-120	Dugalak's procedure
Dynamic Brookfield viscosity RV at 23 ⁰ C, speed 3, spindle T-E	mPa*s	800000-1000000	ISO 2555-89
Flash point	⁰ C	31	ISO 3679
Shrinking, below	%	2	ASTM D256-69

2. PHYSICAL AND MECHANICAL PROPERTIES OF THE GLUE

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Properties	Characteristic	Unit of measurement	Method
Tensile strength	mPa	45-55	ISO 527-1993
Elongation	%	2	ISO 527-1993
Tensile modulus	mPa	3500-3800	ISO 2555-89
Barcol hardness	Units	35-40	ASTM D 2583-99
HDT	°C	75	ISO 75-1993

3. STANDARD PACKING

The DEPOL KS-1 is supplied in 20 kg metal containers

4. STORAGE

Warranty period: 3 months

Storage conditions: store in original packaging in confined space, away from heat sources, at temperature not exceeding 25°C, avoid direct sunlight.

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