

NAUTIC FIBER ADHESIVE

Description:

NAUTIC FIBER is a two-component polyester adhesive for professional use. It is applied with a trowel. Due to its very high mechanical resistance (ca. 25 MPa), it is primarily used to reinforce highly loaded glued joints, thus substituting the time-consuming lamination with glass mats and resins. It is used to join, fasten and fill construction elements made of polyester and epoxy laminates, rigid polyurethane foam and other materials. In addition, the product is easily applicable, has a very high mechanical resistance that guarantees a permanent connection between the glued elements, as well as very low shrinkage when curing (below 1 %). NAUTIC FIBER is available in two versions: Nautic Fiber 15 and Nautic Fiber 30. They differ in gelation time (15 and 30 minutes, respectively) and mechanical properties. The versions Nautic Fiber 15W and Nautic Fiber 30W are equipped with a colour change indicator that shows if the adhesive has been properly mixed with the hardener.

Substrates:

- polyester laminates,
- epoxy laminates,
- plywood,
- wood,
- rigid polyurethane and PVC foams.

Caution: The adhesive should not be applied directly on one-component acrylic and nitrocellulose products.

Surface preparation:

- polyester and epoxy laminates: degrease, dry grind P80 – P120, degrease again with a silicone remover,
- plywood, wood: dry grind P80 – P120, then remove dust.

Mixing ratio:

NAUTIC FIBER – 100 parts by weight,
Hardener – 1 to 2 parts by weight.

Supplementary products:

Hardener – methyl ethyl ketone peroxide (e.g. METOX 50).

Application life after mixing with the hardener:

NAUTIC FIBER 15: 10 to 20 minutes at 20°C (hardener: 2 %).

NAUTIC FIBER 30: 30 to 40 minutes at 20°C (hardener: 2 %).

Curing time:

NAUTIC FIBER 15: 1.5 to 2 hours at 20°C (hardener: 2 %).

NAUTIC FIBER 30: 2 to 3 hours at 20°C (hardener: 2 %).

Colour:

NAUTIC FIBER 15: Pistachio

NAUTIC FIBER 30: Green

Coatability:

NAUTIC FIBER works well with all NAUTIC products from NOVOL, as well as polyester finishing fillers, polyester spray fillers and acrylic primers.

Procedure:

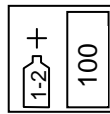
Mix the components thoroughly. Observe the required amount of hardener. Apply a layer not thicker than 10 mm with a trowel. Minimal application temperature: +10°C.



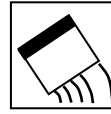
Clean and grind the surface



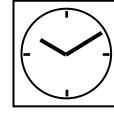
Degrease



Ratio by weight:
100+1-2
Pot life:
15: 10 - 20 min/20°C
30: 30 - 40 min/20°C



Apply



15: 1.5 – 2 h/20°C
30: 2 – 3 h/20°C

Specific gravity:

NAUTIC FIBER 15: 1.45 – 1.55 g/cm³

NAUTIC FIBER 30: 1.35 – 1.45 g/cm³

Volumetric shrinkage:

1 % max.

Chosen properties:

Type of adhesive	Tear strength [MPa]	Ultimate elongation [%]	Bending strength [MPa]	Maximum deflection bend test [%]	Peak temp. [°C]
Nautic Fiber 15	20÷30	2÷4	30÷40	3÷5	35÷55
Nautic Fiber 30	20÷30	2÷4	30÷40	3÷5	35÷55

Resistance tests have been carried out according to the norms PN EN-ISO 527 and PN EN-ISO 179.

Polish Register of Shipping (PRS) approval:

No. TT/1220/710250/07

Equipment cleaning:

NC solvent.

Storage conditions and shelf life:

Store in tightly sealed containers in a cool and well-ventilated place, away from sources of fire and heat.

Avoid direct exposure to sunlight.

NAUTIC FIBER: 6 months at 20°C.

Safety requirements:

See the Safety Data Sheet of the product in question.

Packaging:

NAUTIC FIBER is delivered in unit packages individually agreed upon with the customer.



The effectiveness of our systems results from laboratory research and many years of experience. We ensure high quality, provided the user follows the instructions and the work is performed in accordance with good construction practices. We may not be held liable for defects if the final results were affected by factors beyond our control.
NOVOL Sp. z o.o., Komorniki, PL