



purenit® 550 MD - functional material with flexible application PLUS



Building authority approval
Z-23.11.1819

For increased safety and economy in window, door, vehicle, ship and furniture construction: the multi-function material that impresses in every way.

A real alternative to wood and derived timber products.

purenit is a new kind of multi-functional construction material offering an impressive range of applications and specific material characteristics. With its outstanding properties, purenit takes over where wood and derived timber products reach their limits.

purenit has a high mechanical load capacity, excellent adhesive properties and can be covered with a wide range of top coating layers. Even constant exposure to moisture results in practically no swelling.

Advantages

- ☒ Economical
- ☒ Moisture-resistant (practically no swelling)
- ☒ Hard and with high mechanical load capacity
- ☒ Temperature-resistant
- ☒ Suitable for screw fixings
- ☒ Excellent adhesive properties (suitable for use with all current adhesive systems such as Hotmelt, 1 or 2-component PU systems, PVAC glue etc.)
- ☒ Resistant to chemicals
- ☒ Easy to work (handle as for wood or derived timber products. We recommend the use of carbide-fitted tools to increase service life and improve quality of workmanship)



Dimensions /measurements*

Thickness: 10 - 60 mm
Standard: 2440 x 1220 mm

Edging

blunt-edged

*other dimensions on request

Non-hazardous biologically and in terms of construction ecology, non-compostable, recyclable, resistant to mildew and rot.

industry



From boat construction to partition walls the outstanding properties of purenit are convincing whatever the application.



Technical data purenit® 550 MD



Functional material purenit 550 MD	
Material:	manufactured on high density PUR/PIR basis, unlaminated
Properties:	high mechanical load capacity, compression-proof, dimensionally stable, excellent adhesive properties, can be covered and laminated with a wide range of top coating layers, resistant to chemicals, non-hazardous biologically and in terms of construction ecology, resistant to mould and rot-proof, recyclable.
Applications and areas of use:	profiles or edging strips, concealed edge bands in wetrooms and damp areas, facades, bathroom and ships' furnishings, vehicle fittings (e.g. camper van, carriage, commercial vehicles, ships etc), kitchen work surfaces, as a basis for sandwiched elements, etc.
Bulk density:	550 kg/m ³ (+/- 50 kg), DIN EN 1602
Suitable temperature range:	-50° to +100° C
Compression strength:	5.5 - 7.5 MPa, DIN EN 826
Flexing strength ¹ :	5 - 7 MPa, DIN EN 12089
Shear strength ¹ :	1 - 1.5 MPa, DIN EN 12090, E-Modul: 53.3
Shear resistance ¹ :	1 - 1.5 MPa, DIN EN 12090
Fire behaviour:	D-s3, d0 / E (DIN EN 13501-1), B2 (DIN 4102), BKZ 5.3 (CH)
Swelling ² :	0.8 %, DIN EN 68763
Screw extraction resistance ³ :	650 - 750 N, M6 x 16 / 3500 - 3800 N, 6x60 wood
Conductivity:	0.070 W/(m·K), DIN EN 12667 / 0.086 W/(mK), DIN 4108-4
Dimensions:	standard format 2440 x 1220 mm thickness 10 - 60 mm other format and thickness upon request
Edging:	blunt-edged



1) variations depending on particle/grain size, proportion and composition of binding agent

2) 24 hours at 20° C, depending on ratio of surface / volume, largely reversible, without damage to panel.

3) variations depending on particle/grain size, proportion of binding agent, composition of binding agent and fibrous admixtures.

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State of technology as per 07/2012

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