



## General description

NM Laminating 436 is a solvent free epoxy resin, specially designed for pre-preg on site. The long open-time for impregnated fabrics makes it possible to lay-up larger builds and then cure it all at the same time.

The advantage with NM Laminating 436 is that it could be cured at a relative low temperature (50°C) without any risk to get any tensions or bad adhesion between layers.

The curing system used for NM Laminating 436 can not give any kind of carbonation, and therefor is full interlayer adhesion guaranteed.

That the system can be cured at such low temperature gives a low cost by production and curing.

To make it easier to achive a good mixture, the hardener is coloured blue. When resin and hardener are mixed enough, the laminating resin should have a slight blue-green colour.

## Typical properties

### Resin:

NM Laminering 436

### Hardener:

NM Härdare 437

### Mixing ratio:

Resin-Hardener 100-3 by weight

<i>Density:</i>	1203 kg/m <sup>3</sup>
<i>Viscosity at 25°C:</i>	1.5 Pa·s
<i>Potlife 100g 20°C:</i>	24 hours
<i>Open-time, thin laminate:</i>	> 3 days
<i>Minimum curing temp.:</i>	50°C
<i>Maximum curing temp.:</i>	180°C
<i>HDT(ASTM 648-82):</i>	91-93°C
<i>Tensile strength(DIN 553455):</i>	56 MPa
<i>Elongation at break:</i>	10%
<i>Waterabsorbtion:</i>	~0.6%
<i>Colour:</i>	Slight blue-green
<i>Normal packing:</i>	On request

*Cleaning solvent:* Acetone

Typical curing times at different temperatures:	
50°C .....	72 hours
55°C .....	43 hours
60°C .....	24 hours
65°C .....	18 hours
Curing within those temperatures and times gives a HDT around 100°C. Curing at higher temperatures and longer time gives higher values.	

