

NM BG 31 is a solvent free epoxy resin with fillers. NM BG 31 is used as a glue to get adhesion between green and old concrete.

The adhesion between the concrete layers will be approximately twice the tensile strength of the concrete.

Concrete substrates that are going to be treated with NM BG 31 must be dry and free from dust, oil and other loose materials. If there is any cementskin, it has to be grounded or gritblasted. Apply NM BG 31 very flowing with a roller or a brush.

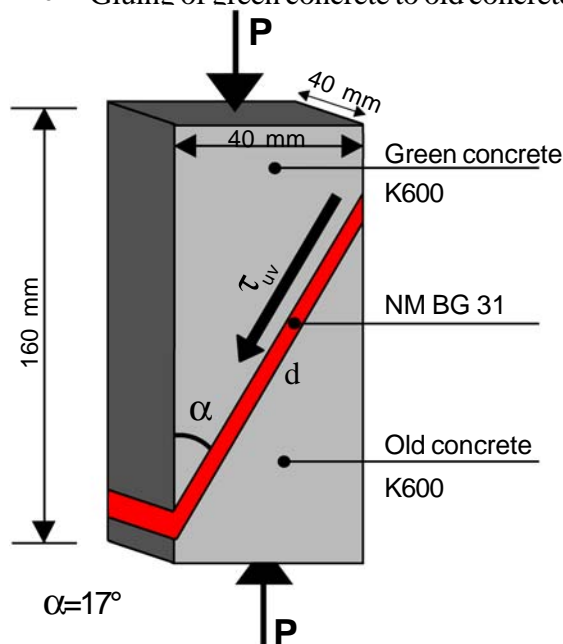
The concrete is casted into the wet glue within the open time. See table below.

When casting on a glued surface the concrete should not be as wet as usual, because no water will penetrate into the old concrete.

Minimum temperature is +5°C for gluing with NM BG 31.

### Typical applications

- Gluing of green concrete to old concrete



$$\tau_{uv} = \text{Adhesion} = \frac{0.96 \times P}{d \times 4} = \frac{0.96 \times P}{54.7 \text{ cm}^2}$$

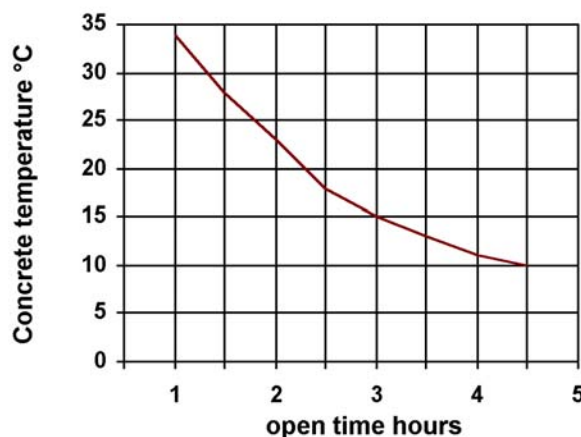
### NILS MALMGREN AB

P.O.Box 2039  
S-442 02 YTTERBY

Phone: +46 303-936 10  
Fax: +46 303-928 55

Typical properties	
<b>Resin:</b>	NM BG 31
<b>Hardener:</b>	NM Härdare BG 13
<b>Mixing ratio:</b>	Resin-Hardener 100-33.3 by weight
<i>Density:</i>	1195 kg/m <sup>3</sup>
<i>Viscosity:</i>	1.5 Pa·s
<i>Open time:</i>	20°C: 2.5 h 10°C: 4 h
<i>Potlife 100g 20°C:</i>	50 min
<i>Adhesion*:</i>	16 MPa
<i>(*Measured and calculated according to figure.)</i>	
<i>Adhesion after immersion</i>	
<i>In water 1 year:</i>	16 MPa
<i>Tensile strength:</i>	48 MPa
<i>Modulus of elasticity:</i>	4 GPa
<i>Minimum curing temp:</i>	+5°C
<i>Colour:</i>	Opak
<i>Consumption:</i>	~ 0.5 kg/m <sup>2</sup>
<i>Normal packing:</i>	6.0 + 2.0 = 8.0 kg
<i>Cleaning solvent:</i>	Acetone

Open time NM BG 31



E-mail: info@nilsmalmgren.se  
Web: www.nilsmalmgren.se