



# Technical Data Sheet

## NM Golv 400 Elit



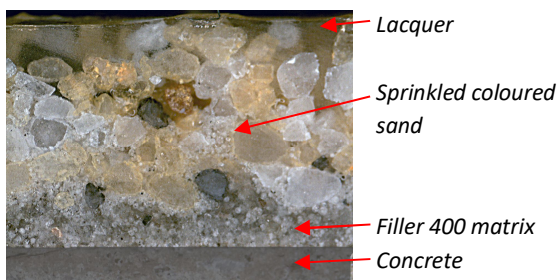
Utg: 1994-06-22

Ers: 2014-01-24

Rev: 2021-10-25

### General Description

**NM Golv 400 Elit** is a solvent free epoxy binder for construction of floorings according to sprinkle method. The matrix mass with NM Filler 400 will after being applied separate in two phases in which the sand is sprinkled. The lower phase will form a bed where sprinkle sand remains in a smooth transition. The upper phase is binder enclosing the sand.



*Section of a 4 mm NM Golv 400 Elit*

This unique combination of binder and filler in the matrix mass eliminates the risk of a stone bridge and dry spots.

Stone bridges means that the quartz grit, in physical contact, forms a bridge between the surface and the concrete substrate. Such a bridge is a crushing hazard at point load.

Dry spots means that the scattered sand absorbs all of the binder in the same manner as when cleaning e.g. spilled oil. At the dry spots, the adhesion to the substrate will be impaired.

**NM Golv 400 Elit** meets all the requirements that can be set on a floor in terms of freedom from pores, slip resistance, chemical resistance, strength, adhesion, tightness and cleanability.

### Use

Flooring in industries, kitchens, restaurant kitchens, warehouses where the load on the floor is large, chemical and pharmaceutical industries, laboratories, slaughterhouses, bakeries, showrooms etc.

### Surface Preparation

Concrete surfaces must be at least 14 days old. Remove oil, grease and wax contaminants by scrubbing with industrial grade detergent or degreasing agents followed by mechanical cleaning. Cement laitance, loose particles, mould release agents, curing membrane and other contaminants must be removed from the surface by shot-blasting, scarifying or grit-blasting followed by vacuum cleaning.

After pre-treatments, the surface tensile strength must be at least 1.5 MPa (check with an approved pull-off tester).

The surface should have a temperature of at least + 10°C.

### Application

The system is built up by first priming the surface. After that should the surface be levelled and all damages repaired. After the sprinkled matrix mass been cured, it can be lacquered or painted.

For a full description, see **NM Work Description NM 400 Elit**.

### Standards for single coloured floor

37	NCS S1040 B10G	17	NCS S3502 B
20	NCS S2050 Y20R	16	NCS S6030 G30Y
19	NCS S5040 Y80R	15	NCS S4030 G30Y

The stated NCS code is the approximate translation from NM's standard colors.

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Curing	12°C /54°F	20°C/68°F
Light pedestrians	24 h	16 h
Full traffic	5 days	3 days
Fully cured	14 days	7 days

## Typical Properties

<b>Resin:</b>	NM Golv 400 Elit
<b>Hardener:</b>	NM Härdare 400
<b>Filler:</b>	NM Filler 400

### **Mixing ratio, matrix mass:**

Resin – Hardener – Filler: 100 - 40 - 110 by weight

### **Mixing ratio, binder/ lacquer:**

Resin – Hardener: 100 - 40 by weight

<i>Density:</i>	1190 kg/m <sup>3</sup>
<i>Dry content:</i>	100 %
<i>Viscosity:</i>	0.4 Pa·s
<i>Potlife 100g 20°C:</i>	45 minutes

<i>Compressive strength:</i>	80 MPa
<i>Tensile strength:</i>	14 MPa
<i>Flexural strength:</i>	40 MPa
<i>E-modulus:</i>	7 GPa
<i>Wear resistance:</i>	RWA1
<i>Bond strength:</i>	B2.0
<i>Impact resistance:</i>	IR25

<i>Consumption, 3 mm:</i>	1.7 – 2.0 kg/m <sup>2</sup>
<i>Consumption, 4 mm:</i>	2.0 – 2.3 kg/m <sup>2</sup>
<i>(Consumption depends on the surface smoothness.)</i>	

### **Gap/distance NM Elitläggare/ Self levelling rake:**

3 mm flooring	1.4 – 1.7 mm
4 mm flooring	1.7 – 2.0 mm

*Chemical resistance:* See home page

*Normal packing matrix mass:* 25.0 kg  
*Normal packing sealer:* 14.0 kg

*Cleaning solvent:* Acetone

## Chemical resistance

For a complete list, contact Nils Malmgren AB or visit our home site, [www.nilsmalmgren.com](http://www.nilsmalmgren.com)

### **Key**

- Not recommended
- + Short use
- ++ No problems

Petrol .....	++
Ethanol, 50 % .....	++
Motor oil .....	++
Sodium hydroxide, 10 % .....	++
Hydrochloric acid, 10 % .....	++
Water .....	++

## Note

### **Quality assurance:**

In order to assure the quality of application, we have a form where important information is documented. The form is available from Nils Malmgren AB, telephone +46 303 936 10

### **Declaration of performance:**

Can be obtained for this product. See our website or contact Nils Malmgren AB.

## Disclaimer

This product's technical specifications are developed by experience in field and laboratory by us. Fully cured will take place at seven days at +23°C and 50 % RF. The strength values are based upon excess sanding with natural sand 0.4 - 0.8 mm. Other grades of sand can provide outliers.

We reserve the right to change products as well as data. Current data sheets are available at our website and with us. We cannot assume responsibility for use in areas that we do not know. The user shall always evaluate products for their intended use and we guarantee only the material properties. For every product we offer reference objects separately.

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