

# EPOXY COLOUR SAND SYSTEM

# L48

3 25.3.2014

Coating system for treating concrete surfaces. Epoxy varnish is used for priming and solvent-free, rubbable epoxy mass for top coating. Treatment system 66301 according to MaalausRYL 2012 (Finnish handbook "MaalausRYL 2012" concerning general quality requirements and treatment systems of paint work).

## COATING SYSTEM

|                                                                                                                  |                                           |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Code<br>MaalausRYL 2012<br>System code according to PSK 2703<br>Pretreatment code according to PSK 2703<br>Paint | L48<br>66301<br>FS5.1 EP4000-D/GD3<br>GD3 |
| TEKNOFLOOR 300F epoxy varnish                                                                                    | priming                                   |
| TEKNOFLOOR 400F epoxy varnish +<br>coloured sand mixture                                                         | 1 x 4 mm                                  |
| TEKNOFLOOR 300F epoxy varnish                                                                                    | 1 - 2 x top coating                       |
| Total film thickness                                                                                             | abt. 4 mm                                 |

Also TEKNOFLOOR PRIMER 310F epoxy varnish can be used for priming. The number of top coating tiers depends on the strain the floor is subjected to (see technical data sheet 1204).

## Painting of damp concrete

TEKNOFLOOR PRIMER 306F epoxy varnish must be used for priming if the moisture of the concrete surface to be painted exceeds 97 % as relative humidity. In that case the system code according to PSK 2703 is:  
L48: FS5.1 EP4000-W/GD3.

**USAGE** Floors subjected to severe mechanical and chemical strain.

## SURFACE PREPARATION

Surface preparation method is scarifying or shot-blasting. Detailed instructions can be found in the technical data sheets of the mentioned products.

**APPLICATION** The surface to be painted must be clean and dry (the moisture of the concrete must not exceed 97% as relative humidity or 4% by weight). Before use the base, the sand mixture and the hardener are carefully mixed in right proportion given in the table on page 2 and on the label of the paint. Take into consideration the pot life of the mixture when estimating the amount to be mixed at a time.

The technical data of the paints and varnishes are given in the table on page 2 and in the data sheets of the products.

## TECHNICAL DATA

|                                                                                                |  |                                                         |                                                                          |
|------------------------------------------------------------------------------------------------|--|---------------------------------------------------------|--------------------------------------------------------------------------|
| Paint                                                                                          |  | TEKNOFLOOR 300F<br>epoxy varnish                        | TEKNOFLOOR 400F<br>epoxy varnish                                         |
| Technical data sheet no.                                                                       |  | 1203                                                    | 1204                                                                     |
| Paint type                                                                                     |  | solvent-free epoxy<br>reaction varnish                  | solvent-free epoxy<br>reaction varnish                                   |
| Mixing ratio<br>- base<br>- hardener<br>- coloured sand 0.7–1.2 mm<br>- coloured sand 1–1.8 mm |  | 2 parts by volume<br>1 part by volume                   | 6 liters<br>3 liters<br>28 liters<br>7 liters                            |
| Pot life, +23 °C<br>- kept in the vessel min<br>- poured out on the floor min                  |  | 10<br>30 – 40                                           | 15 - 30<br>60 - 120                                                      |
| Solids % by volume                                                                             |  | abt. 100                                                | abt. 100                                                                 |
| Total mass of solids g/l                                                                       |  | abt. 1100                                               | Varnish mixture without<br>sand 1100                                     |
| Volatile organic compound<br>(VOC) g/l                                                         |  | abt. 0                                                  | abt. 0                                                                   |
| Spreading rate m <sup>2</sup> /l                                                               |  | 3 - 6 (priming)<br>7 - 10 (top coating)                 | 4 - 5                                                                    |
| Drying time<br>- fit for light traffic,<br>+23 °C<br>- overcoatable                            |  | after 16 h<br><br>by itself or with<br>TEKNOFLOOR 400F: | after 24 h<br><br>with TEKNOFLOOR<br>300F:                               |
|                                                                                                |  | <b>+10 °C</b> <b>+23 °C</b>                             | <b>+10 °C</b> <b>+23 °C</b>                                              |
| min.                                                                                           |  | after 24 h      after 6 h                               | after 36 h      after 16 h                                               |
| max.                                                                                           |  | after 48 h      after 24 h                              | after 72 h      after 24 h                                               |
| Thinner, clean up<br>(the mass is not to be<br>thinned!)                                       |  | TEKNOSOLV 9506 or<br>TEKNOSOLV 9515                     | TEKNOSOLV 9506                                                           |
| Colours                                                                                        |  | -                                                       | colours of the sands                                                     |
| Methods of application                                                                         |  | brush, roller                                           | adjustable trowel,<br>mechanical rubbing,<br>roller box,<br>"helicopter" |
| Application conditions<br>- min. temperature °C<br>- max. relative humidity %                  |  | +10<br>80                                               | +15<br>80                                                                |

## MAINTENANCE PAINTING

Old mass is cleaned from dirt and grease and grinded matt or lightly shot-blasted. Cavities and crevices are filled with a stiff mixture of varnish and coloured sand. Sections where the mass has worn off or detached, are pretreated and primed over again. The floor is coated and varnished according to the instructions in the technical data sheet. Treatment system 66301 according to MaalausRYL 2012.