

EMBLEM Easyprotect anti-slip 2K – technical information

EMBLEM Easyprotect anti-slip 2K is a waterbased protection varnish with non slip properties for inkjet prints on vinyls and banner material for floor graphics advertisement. Easyprotect anti-slip 2K is certified by LGA –authorised Institute for Material Testing and Certification in Germany.

Substrate:

Recommended are typical substrates for floor graphics. Due to the meanwhile very big range of available medias a pre-test to confirm the suitability of the varnish is strongly recommended.

Appication:

The lacquer should be mixed well before use. The inkjet prints should not contain any residual solvents in order to achieve an optimised wetting and adhesion. The lacquer is not suitable for prints with oilbased inks.

Properties and Handling:

The hardener (1part) must be well stirred in the varnish (10parts) until a homogenous mixture is achieved. After 15 minutes of setting the varnish is ready to use. Initially visible foam has disappeared and the rheology has stabilised. To certainly avoid particle contamination it is recommended to filter the varnish prior to use through a suitable mesh.

The varnish must be applied with a wet film thickness of at least 100 microns in order to achieve a maximum non slip effect. This equals 40-50 g/m² on the dried substrate. If applied using a roll the following technique is recommended:

- Soak the roll completely with water and press out firmly
- Fill the roll on the substrate with varnish and distribute evenly
- Immediately add more varnish and carefully distribute a homogenous second layer. Keep the pressure of the roll low to deposit a heavy film weight.
- The initial uneven appearance of the wet varnish (air bubbles, orange peel) disappears soon during the film formation.

The described sequence must be carried out as quickly as possible. Unnecessary and repeated roll over and crosswise movement of the roll must be avoided, in particular when the varnish starts to dry, as this would interfere a smooth and high gloss surface.

EMBLEM Easyprotect anti-slip 2K can be applied without thinning. The roll should apply 100 micron thickness. If applied using air brush the varnish should be reduced by 5% water. This should be stirred in slowly.

Drying:

If laid out at room temperature (20-25°C) with a free air flow EMBLEM Easyprotect anti-slip 2K will become touch dry after 3 hours. In order to obtain full drying and hardening the varnish must be stored for 48 hours in an ambient climate. However, the final resistance performance will always be achieved after 5-7 days.

Cleaning:

Rolls and other tools can be cleaned with water immedeately after use.

Storage stability:

Under normal conditions (low temperature cycles, average temperature between 15-25°C) the varnish can be stored without loss of the designed properties for at least one year and the hardener for 6 months. The lacquer should be mixed well before use because the anti slipp additive could be settle in the lacquer. The mixture of lacquer and hardener must be used within 5 hours. When the pot life has exceeded the viscosity will increase, the mixture becomes unusable and must be disposed off according the local regulations.

Non slip properties:

The non slip properties of EMBLEM Easyprotect anti-slip 2K has been tested and certified in Germany. The institute has rated the lacquer with non slip property class R10. The test has been done according to DIN 51130: 2004-6.

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