pheron | GLAZE

General information

PHERON GLAZE ESD is an innovative conductive coating for various industrial ESD applications. It is based on novel nanotechnology where very low resistance levels can be achieved without changes in overall properties of the coating. Moreover, the initial color of the coating is only slightly affected.

It cures to form a hard but though, semi to high gloss surface that resists water, acids, bases and UV. It has exceptional weathering fastness, color and gloss retention and is therefore highly recommended to outdoor applications. It is not recommended for applications where aromatic solvent resistance is needed.

Flexibility of the coating can be customized by choosing the curing agent accordingly. The working time can be adjusted according to application which ca be done with spray, brush or roller. Fast curing behavior even at freezing temperatures translates into a faster painting process and / or to faster return to service.

Key properties

- ✓ RAL colors and transparent varnish
- ✓ 2-component, solvent-free system with adjustable working time
- ✓ hard but though finish, high film build
- ✓ weather and UV resistant
- ✓ very good overall chemical and heat resistance
- ✓ wide application window - cures at low temperatures (-10 °C) - no need for post-curing

Typical properties

✓	Pendulum hardness after 7 days [s]	140	ISO 1522
✓	tear strength [kN/m]	30	ASTM D-624
✓	elongation at break [%]	10 - 100	DIN EN ISO 527
✓	solid content [%]	100	
✓	Taber Abrasion mass loss[4)] [mg]	15	ASTM-D04060, 1kg, 1000 cycles

PHERON GLAZE ESD fulfills the ESD requirements of IEC 61340-5-1:2016

✓	resistance to ground	< 1000 MΩ	IEC 61340-4-1:2004+AMD1:2015
✓	system resistance	< 1000 MΩ	IEC 61340-4-5:2018
✓	voltage of the body	< ± 100 V	IEC 61340-4-5

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Applications

- ✓ industrial ESD floors where very short downtime is essential
- ✓ high traffic areas where high durability is needed

Usage

All surfaces must be dry and before application dust, oil or dirt is removed by appropriate means. Product reacts strongly with water, so all the tools and containers need to be dry. If the substrate is in very bad condition it is recommend pretreating the surface by shot blasting or diamond grinding. Pre-treatment is highly recommended in order to get proper adhesion.

substrate material	*pretreatment*	*primer / activator*
concrete	*shot blasting, diamond grinding*	*DeraFLOW A*
brick	*high pressured water, drying*	*Fresh SA-1, DeraFLOW A*
steel	*shot blasting, sanding*	*Fresh SA-1, DeraFLOW A*
gel coat, wood, MDF	*sanding*	*DeraFLOW A*

The working temperature should be 15 – 24°C. Curing agent is supplied with resin part. Add the curing agent accordingly and mix the components well in given ratio (mechanical mixing unit is recommended, approx. 300 rpm). The mixing ratio is given in the label.

After mixing apply product with spray, brush or roller. Avoid higher film thickness than 1 mm as gas may be released causing surface problems. Water acts as a strong catalyst. Tools can contain moisture and it may shorten gel time. *Solvent 45* is used to adjust the viscosity. Clean tools with acetone or equivalent.

The coated surface must be protected from direct water contact for 6 – 8 hours after application. Surface is tack-free after 6 – 12 hours depending on the conditions. The product will reach complete cure within 10 days at room temperature.

Storage & Handling

The content of an opened package is influenced by air moisture. Keep tightly capped when not in use. Handle in a well-ventilated area. Store indoors at room temperature in the original containers kept tightly closed. Protect form direct sun light. Detailed safety information is contained in a material data safety sheet.

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