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Technical  
sheet

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## SMALTURA ESD

Conductive water based coatings.

### Description

- One component pigmented product in aqueous dispersion based on acrylic-polyurethanic copolymer. Inside the formulation there is a conductive pigment with a low index of refraction, that allow to obtain a film that conducts on surface.
- **Smaltura ESD**, unlike other products on the market, may be formulated with every RAL colours and its value of surface resistivity is independent of environmental humidity.
- The film has got a matt aspect and a good adhesion on several substrates (several polymer plastic, a luminium, zincate sheet, etc.).
- **Smaltura ESD** may be used alone or in combination with PAVIWATER ANTISTATICO when is necessary to obtain a semi-gloss coating.
- The final film has got good capability to dissipate the electrstatic charges. For this reason **Smaltura ESD** is suitable for all kind of application where is necessary to avoid the formation of electrostatic charge

### Uses:

#### To making conductive industrial and civil floors:

- Warehouses and factories of paints, inks and solvents.
- Powders' factories.
- Warehouse and factorie of explosive.
- Textile industry

To reduce fire risks due to accumulation of electrostatic charges.

- Surgeries.
- Warehouse with robotic materials handling
- Production of telephones, audio/video, computers, etc.

The accumulation of electrostatic charges may influence electronic apparatus..

#### Painting of case in polimeric material containing electronic devices.

(Computers, mobilephone, ecc.)

To protect from elettrostatic charges

#### To coat plastic object

- Like primer, to allow an electrostatic top coat.
- To avoid dust deposition

#### Decorative top coat for metallic surfaces.

(alluminium, zincate sheets, stainless steel)

To avoid the totally insulation of the surface.

**Use mode:****For flooring:**

- On resin floors, abrade the surface to allow the adhesion.
- Working on concrete, apply one lay of PAVIWATER T/68 diluted 1 to 3 with water (50 g/m<sup>2</sup> of A+B) as primer.
- On electrical insulated surfaces, make some grounding inserts, putting in every insert (one every 20 mq ca) a piece of alluminium or a conductive putty.
- Apply the Smaltura ESD, using a brush or a roller with a consumption of 80 gr/mq.
- To give more gloss and resistance to the floor use **PAWIWATER ANTISTATICO**, only one lay with a consumption of 90 gr/mq.

**Other applications:**

- Every substrates must be clean, degreased and free from old detached enamel.
- A rough surface increase the anchorage strenght. In the case of metals is necessary to remove the detached part.
- Apply the product with the most appropriate tools.

**Technical data:**

Colour:	all Ral colours
Specific weight :	1,250 +/- 0,05 g/ml at 25°C
Solid content:	51,5% in weight; 39,3% in volum
Viscosity at 25°C:	1700 +/- 350mPascal rpm 12 spindle 2
Consumption:	0,080 kg/mq to obtain a dry film of 30 micron
Surface electrical resistance:	0,02-0,2 MΩ/• for a dry film of 30 micron
Flammable point:	Do not applicable
Tack free time:	15-25 minutes at 25°C and 50% U.R.
Recoverable:	from 6 to 36 hours at 25°C and 50% U.R.
Complete hardening:	7 days at 25°C and 50% U.R.
Use conditions:	Temperature between 7°C and 30°C. U.R. <80%
Solvent to clean the tools	water before the filmation and ethilic alchool after
Storage life :	12 month in dry warehouse with a temperature between 5° and 35°C.