

PAVIWATER ESD

STATIC-DISSIPATIVE EPOXY COLOURED IN
AQUEOUS EMULSION (A+B)



DESCRIPTION

Two-component colored finish (A + B) based on epoxy and amine resins in water dispersion, with a high content of solids. Innovative raw materials based on carbon nanotubes give the coating an electrical conductivity that complies with the main standards of the ESD industry.

The resistivity value is homogeneous and constant over the entire surface and allows to disperse the charges on the surface and to discharge them transversely on the underlying layer.

Excellent wear resistance. Easy cleanability and sanitization of the surface.

USE

Colored conductive painting of floors inside buildings. Painting to renew the color of old resin floors.

Paint for wall plinths.

Suitable for Atex environments, Class II.

Suitable for electronics companies and wherever devices sensitive to electrostatic charges are manufactured or assembled (ref. ANSI/ESD STM 97.1 / 97.2 and IEC 61340-4-1).

SUPPORT

The substrate must have a minimum compressive strength of 25 N/mm² and a tensile strength of 1,5 N/mm².

PREPARATION OF THE SUPPORT

Concrete bases must be solid, dry (seasoned if newly built), leveled, absorbent, not polluted by oils, detergents, disarming, powders or other substances.

Check for rising damp.

Evaluate the most convenient type of mechanical preparation (abrasive or sanding).

Holes and slight anomalies can be repaired in advance with PAVIRAPID or SIVITCOL.

Tiled floors must be abrasive or polished to a completely opaque surface.

Existing resin coatings must be abrasive or polished, thus eliminating dust residues.

Absorbent or chalking cementitious surfaces should first be treated with PAVIWATER T68 diluted 1:3 with water.

The supports prepared by sanding that show signs of abrasion must be shaved with suitable Sivit formulations (contact Sivit Technical Assistance).

Substrates that are damp or subject to rising humidity must be treated with SUPERCONDUPLAST W.

APPLICATION

At the time of application, combine the two pre-dosed components in a single container. Mix carefully for 2 minutes, using appropriate equipment (drill with propeller) and taking care to clean the walls of the containers with a spatula in order to mix all the product.

Once the mixing phase is finished, respect the induction time by letting the product rest in the tin.

Add the dilution water slowly and under stirring, stir the product for 1 minute and apply in a roller for a consumption of 0.130 kg/m² for each shot.

The product should be used after the induction time and within the time of use, according to the table below depending on the ambient temperature:

temperature	15 °C	25 °C	30 °C
induction time	25'	15'	10'
screen time	105'	90'	70'

Attention: avoid preparing partial mixtures of the product in order not to incur accidental errors, which could lead to a failure or complete hardening.

If the induction and use times are not respected, there may be differences in the finish, highlighted by different colors and degrees of gloss.

In the case of simple static-dissipative painting, before laying, prepare grounding points by applying copper strips in correspondence with the electrical boxes.

Dilute the PAVIWATER ESD mixture with 10% by weight of water and apply in a roller uniforming the surface with parallel movements. To obtain a non-slip surface, add 3-5% by weight of SFERETTE DI VETRO (fine or large).

During application, stir the product to avoid sedimentation.

PAVIWATER ESD can also be applied to shave: in this case add to the mixture 30% by weight of SFERETTE DI VETRO and apply with American trowel, for a maximum consumption of 0.20 kg/m² of PAVIWATER ESD. This will be followed by the application of a roller layer according to the methods indicated above (static-dissipative painting).

Protect the applied product from moisture, condensation and water for at least 24 hours.

The overapplication of protective transparent paint systems makes the surface insulated again.

TECHNICAL SPECIFICATIONS

PRODUCT DATA	
Colour	On request second RAL folder (always check in advance the feasibility of the color with Sivit Technical Assistance)
Consumption	per roller: 0,10-0,13 kg/m ² to shave: 0,20 kg/m ² of (A+B) and 0,06 kg/m ² of GLASS BEADS
Specific gravity (at 25 °C):	
mixture (A+B)	1,48 +/- 0,05 g/ml
Part A	1,56 +/- 0,05 g/ml
Part B	1,10 +/- 0,05 g/ml
Viscosity (at 25 °C):	
mixture (A+B)	4.000-4.500 mPa·s (spindle 2, rpm 2)
mixture (A+B) diluted to 10%	1.000-1.500 mPa·s (spindle 2, rpm 2)
Dry residue (A+B)	67-70% by weight
VOC ready to use (Legislative Decree 161/06)	< 50 g/l Cat.A/j. High performance two-component paint (BA).
Flash point	None
Solvent for cleaning tools	Water
Storage	12 months, store in a dry place at a temperature between 10 °C and 35 °C
APPLICATION DATA AND TIMES	
Mixture ratio	by weight: A=100, B=33
Induction time	15 min
Pot-life (50% R.H.)	at 15 °C 130 min at 25 °C 105 min at 30 °C > 80 min
Dry to the touch (50% R.H.)	at 15 °C 18-22 hours at 25 °C 4-6 hours at 30 °C 2.5-3.5 hours
Coverage (50% R.H.)	at 25 °C 14 to 36 hours
Hardening in depth (50% R.H.)	at 25 °C 7 days

Environmental conditions of use	Temperatures between +15 °C and +35 °C, R.H. < 70% (*)
Surface temperature	Between +10 °C and +30 °C
Coating maintenance	For cleaning operations use neutral detergents
PERFORMANCE TECHNICAL DATA	
Appearance	Lightly peeled surface
Gloss (60°)	60-65 ^(*)
Abrasion resistance UNI 8298-9	53 mg (TABER Mola CS-17-1000 rpm - 1000 g weight)
Chemical resistance	Contact Sivit Technical Service for detailed information
Point-to-point surface resistivity (UNI EN1081)	1,5·10 ⁷ Ω

(*) The degree of brilliance of the applied PAVIWATER ESD product is influenced by several factors: material temperature, ambient humidity, application temperature and porosity of the substrate.

WARNINGS

Different production batches of the same color may have small differences: where possible use material from a single production batch for each area to be treated.

Some colors based on organic pigments (red, blue, green, intense yellows, ...) tend to give color if they are subjected to abrasion (dry or wet): in these cases it is advisable to protect the color with a transparent finish (FINISOL ESD).

Product for professional use, the buyer undertakes to follow the above warnings in the application of the purchased product and the instructions in the safety data sheet.