

Conductive or dissipative properties

UR1967M EFDEDUR-Primer conductive
UR1982M EFDEDUR-Coating

What do the terms “conductive”, “dissipative” and “insulating” mean?

- Conductive materials and objects have such a low level of electrical resistance that they can be earthed, and may even be used as earthing points for other objects.
- Dissipative materials and objects have a higher level of electrical resistance than their dissipative equivalents. However, they can still not be charged in a way that is dangerous provided that they are earthed and not subjected to any powerful charge-generating processes.
- Insulating materials and objects are neither dissipative nor conductive, and are generally unable to be earthed.

Source: Extract from BG RCI

1. UR1967M EFDEDUR-Primer conductive for plastic substrates (**conductive**)

In order to be able to electrostatically coat a non-conductive substrate such as plastic (SMC, ABS or PA), the surface must be made conductive. UR1967M creates a conductive coating layer on the workpiece. This can be earthed, and the subsequent coating can be applied electrostatically. The application of corresponding powder coatings is therefore also possible.

2. UR1982M EFDEDUR coating for primed metal substrates (**dissipative**)

In order to prevent workpieces from being electrostatically discharged (ESD) or charged, the surface must be made dissipative. UR1982M as a dissipative top coat for primed metal substrates, reduces the danger of charging accordingly.

With UR1982M, surface resistances up to a maximum of 10^9 ohms (with the corresponding primer and adherence to the layer thicknesses specified in the TDS) can be achieved.

3. UR1014H EFDEDUR layquer paint for metal substrates (**conductive**)

To prevent electrostatic discharge (ESD) or electrostatic charging of workpieces, the surface must be made conductive.

UR1014H as a conductive top coat for metal substrates reduces the risk of charging accordingly.

With UR1014H, surface resistances of up to max. 109 Ohm (in compliance with the layer thicknesses specified in the TDS) can be achieved.

4. Comments

- These qualities **UR1967M** and **UR1982M** are only available in the **mat** gloss level setting
- Can be produced in different colour shades (the colour shade template cannot always be achieved)
- The following are unavailable:
 - Light and clear bright colour shades such as RAL1021, 2008
 - White colour shades such as RAL 9010, RAL 9016

Our safety and technical data sheets contain all further information.

Our technical data sheets are to advise you according to our latest state of knowledge. This information does not release you from own tests of our products in view to the ability for the intended procedures and applications. The sole of our products is in accordance with our terms of business and delivery.

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