EFD-Info 162

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

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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. Comments
   - These qualities are only available in the **matt** gloss level
   - Can be produced in various 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.

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