

# Technical information regarding wet coatings with conductive or dissipative properties

UR1967M EFDEDUR conductive primer  
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. EFDEDUR conductive primer UR1967M 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. EFDEDUR coating UR1982M 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 on UR1967M and UR1982M

- These qualities are only available in the **mat** 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 and
  - White colour shades, such as RAL 9010, RAL 9016

Additional information is available in our technical data sheet UR1967M and UR1982M.