



# IN-MOULD COATING



***Brilliant colours for highest demands!!***

✓ ***Cost reduction...***

... due to the elimination of up to 80% of additional steps, also less layers are needed and therefore, the total weight is also reduced.

✓ ***High adhesion properties...***

... between varnish and EP-laminate. Even after weeks it can be laminated again.

✓ ***Optimised surface qualities...***

... and available in almost all RAL colours or in transparent for visible parts.

## Description:

The In-Mould Coating (IMC) is a special developed 2K polyurethane varnish for coating fibre-reinforced plastic components in negative moulds and it is preferably used for coating epoxy laminates.

Whether for highly transparent visible carbon parts, complex vehicle components or special colours in flight model construction - our IMC-Varnish enables the complete manufacturing of the fibre-composite component in the mould. At the end of the process, you'll have a ready painted component.

Our In-Mould Coatings are available in the colour systems of RAL or adjusted to your own colour sample. Highly transparent versions for design fabrics are also available.

## Principle:

The painting of the moulded part takes place in the mould or in the negative mould. Instead of grinding and painting the component after de-moulding, the painting takes place already in the mould on the later visible side of the component.

Due to the specially developed formula, the applied PU-Varnish can be laminated even after weeks without problems and therefore, even a larger batch production is possible. Especially productions with the Vacuum-Infusion Method or the Vacuum-Press Method can benefit from this principle.

The In-Mould Coating is applied with a spray gun or with a soft brush. Our Epoxy High Load Resin System HP-E29L, HP-E56L or HP-E111L as well as the Injection Resin System HP-E3000GL and HP-E300RI ensure an especially high adhesion between the layers.

## Advantages:

### 1. Significant cost reduction ...

... due to the immense time savings of up to 80% as well as the reduction of additional work steps. Furthermore, compared to conventional gel coats the low layer coating of the IMC reduces not only costs but also the total weight of the component.

### 2. High adhesion between the layers ...

... due to the special formula of the system. It enables a subsequent further processing after applying the In-Mould Coating even after weeks. In combination with our Epoxy High Load Resin Systems it forms a „real“ chemical bond.

### 3. Optimised surface quality ...

... available in many RAL colours or in transparent for visible carbon parts. High UV- and light stability as well as a good resistance to weathering.

In combination with the MTI®-Hose (membrane-wrapped suction line) the respective advantages are combined and therefore unite the cost reduction with a high level of process stability!

Convince yourself and have a look at our products!!

Follow this QR-Code to a detailed animation of the IMC/MTI®-Method!

