

ENVIRONMENTALLY FRIENDLY PAINT FILM TECHNOLOGY

Easy coating with high-tech paint films

- up to 70 percent less energy consumption
- weather and scratch-resistant
- ready to use, no drying time
- for simple plastic or metal surfaces

A perfect coating result often requires many complex, time-consuming and costly steps. Usually, the plastic component has to be pre-treated, then the applied coat needs time for evaporation and drying. Depending on how many layers are required, the process may be repeated up to three times. Wörwag has sustainably improved this process and developed an environmentally-friendly paint film coating that uses up to 70 percent less energy than conventional coating methods.

NEW ECO-FRIENDLY PROCESS

The new technique combines the advantages of both worlds: It protects and finishes plastic and metal components durably in a single step without drying time. Parts coated in this manner are indistinguishable from conventional coated components.

DURABLE FINISHING

The coatings are highly resistant to weathering, chemicals influences and scratches. Two types are available:

The **transfer paint film** is specially designed for coating of add-on parts in the automotive industry. It is applied as a paint film whereby the release film is removed from the adhesive side first and then the outer protective film is removed later.

The **decorative paint film** is suitable for visual enhancement of plastic parts such as window frames and other building elements. We supply both foils tailored to customer size requirements.



HOW PAINT FILMS ARE APPLIED:

Profile lamination of the decorative paint film with a hot-melt adhesive.



Lamination of the profiles

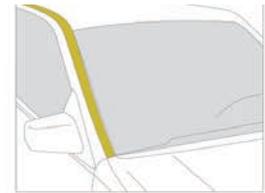


End product plastic window frame

The transfer coating film is applied with an extrusion lamination process. The film is fixed by molten resin to the desired surface.



Extrusion lamination with PVC



End product water deflector

PROCESS COMPARISON

Conventional paint

Paint film technology

Transfer efficiency:

Efficiency of max. 60 percent: i.e. 40 percent of the paint materials used are wasted and disposed as paint sludge or dried material.

Efficiency 100 percent under ideal conditions. Paint film application avoids over-spray or other waste products.

Energy requirements:

High. Through large-scale dryer with low air speed.

50 to 70 percent savings compared with conventional methods. Fast drying, low air volumes lower energy needs.

Process waste:

Paint sludge, filter materials from the paint booths and solvent vapours in the exhaust air. Process water from parts cleaning and painting booths.

None. No need for the user to handle waste paint sludge, filter materials or evaporating solvents.

AVAILABLE TYPES

Decorative paint film:

- high-gloss, matte, different structures
- wide selection of colours and effects available

Transfer paint film:

- high-gloss, matte
- black