

## 2005

# Furwa - The Expert for Lacquered Veneer Edges and Profile Wrapping Veneers

## The following versions can be offered by us:

Natural Lacquer	(5-6x PUR coat)
Stained and lacquered PUR	(1x stain + 5x PUR coat)
Pigmented lacquered PUR	(1-3x pigment lacquer + 2-3x PUR coat)
Flex lacquer, natural	(1x UV flex basic coat + 3-4x PUR top coat)
Flex lacquer with pigment	(1x UV flex basic coat + 1-2x PUR pigm.+2x PUR nature)
UV lacquer, natural	(2 coats of UV lacquer, natural)
UV lacquered with pigment	(1x UV basic coat + 1x UV top pigmented)
Stained and UV lacquered	(1x stain + 2x UV lacquer)
UV top lacquering	(3 coats UV lacquer, natural)
UV top with pigment	(1x UV basic coat + 1x UV pigment + 1x UV top coat)
Stained and UV top lacquering	(1x stain + 3x UV lacquer)
UV flex lacquer	(1x UV flex basic coat + 1x UV top coat)
UV flex lacquer with pigment	(1x UV flex basic coat + 1x UV pigment)
Stained and UV flex lacquer	(1x Stain + 1x UV flex basic coat + 1x UV top coat)
UV flex lacquer Top	(2x UV flex basic coat + 1x UV top coat)
UV flex lacquer Top w/pigment	(1x UV flex basic coat + 1x UV pigment + 1x UV top coat)
Stained and UV flex Top lacquer	(1x Stain + 2x UV flex basic coat + 1x UV top coat)
Hydro Top lacquer, natural Hydro Top lacquer w/pigment	(2x UV flex basic coat + 1x Hydro lacquer, natural) (1x UV flex basic coat + 1x UV flex basic coat w/pigment + 1x Hydro lacquer, natural)
Lacquering of opaque/coating varnish	(SH lacquering systems, divers structure), e.g., white
Basic Coats:	PUR basic coats (4-5x PUR basic coat) UV base-coated with 1 layer (with or without sanding) UV base-coated with 2 layers (with or without sanding) UV base-coated with 3 layers (up to a completely closed pore)

The Hydro Top lacquering system differs from the UV flex lacquering system by the fact that, as a rule, it can be overpainted with any lacquering system without sanding it beforehand (the user has to execute own tests, however).

Staining tones may partly be effected separately. Offers and techniques according to prior agreement.

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Apart from our previous comments, there are changes in the designation and/or the technical use of the different lacquering versions according to the progress in technique.

On the front page you will find all lacquering versions out of which the customer may individually choose depending on his requirements and technical necessities. The advantages of lacquering systems partly overlap with the disadvantages. For softforming and profile wrapping we make a preselection depending on the profile, then a series of tests has to be made. In the field of softforming the processing method with small segmental pressure pads has proven successful. If you need further information of this method, we kindly ask you to contact us.

It is always important to submit a profile sketch in the case of softforming and profile wrapping to enable us to inform you about problems and to make a preselection.

Please find the various kinds of lacquers below in detail:

#### Natural Lacquer (PUR lacquer):

PUR lacquering is a very inexpensive system, which is the most widely spread system nowadays because of its 10 years of use. The major advantage is that it is possible to overpaint the material with many lacquering systems without sanding it beforehand. Exception: Sanding the PUR lacquer is essential when overpainting by means of a UV lacquer. This lacquering method is mainly used for straight edges, but also for softforming and door foldings. It is important as well that apart from pigmenting also staining as an integrated method is designated to match the requested colour. We can only set the gloss grade according to a sample.

#### Flexible Lacquered:

Technical structure: UV flex basic coat + PUR top coat:

This lacquering system combines a high surface quality with overpaintability and high flexibility. Nowadays, this lacquering system is classified as the ideal lacquering for softforming systems whereas at single spots of the profiles repairing or reworking is necessary. To overpaint a material is possible even without sanding it because of the PUR finishing coat. (Exception: overpainting with UV lacquer)

#### UV Lacquered:

The standard UV lacquering has a good surface quality; however, it is not very flexible. However, it is more inexpensive than the latter and is used for straight edges as the counterpart to PUR lacquerings. Disadvantage: there is only a limited period of time between sanding the material and overpainting it. Advantage: the gloss grade can be set well, and it is guaranteed to be free of solvents.

#### UV Top Lacquer:

In this field dull lacquerings (8°) up to high gloss lacquerings (max 50°) are possible. UV top lacquer offers the highest standards with regard to the surface quality, however, it is not very flexible.

#### UV Flex Lacquer or UV Flex Lacquer Top (also with pigment):

These lacquers are flexible (if "top", highly flexible) and must be talked about with the user of the edges or the profile wrapper in detail. These systems are much more flexible than all systems mentioned above, because of the use of specially highly flexible UV lacquers, and additionally they offer a correspondingly high surface quality.

These lacquers provide high flexibility coupled with a high surface quality. Radius R 3 mm and even less function without any problems; however, under the precondition of a corresponding edge structure and a corresponding setting of the pressure zone.

### Hydro Top Lacquering System:

The Hydro Top lacquering system consists of 2 x UV flex basic coats, the currently most flexible lacquering system which can be offered by us. A hydro lacquer is applied as the top layer. Thus the surface is finished; however, it can be overpainted as well. This overpaintability without sanding beforehand distinguishes this system from our UV flex lacquer Top.

It goes without saying that the lacquering system can also be pigmented. The customer must check upon the overpaintability himself by making own tests. As any hydro lacquering system, our Hydro Top also has the property of turning slightly grey or becoming slightly turbid. However, it is preferably used in the field of softforming and door foldings, because in those cases only when problems occur or reworking is necessary will the lacquer be overpainted.

#### **Opaque/Coating varnish:**

In this field we use SH lacquering systems which are used to produce white coats of coating varnishes, grey coats of coating varnishes or similar. The porosity of the desired lacquering is the decisive factor for the price quotation, as sometimes more and sometimes less lacquer needs to be applied, and additional operating cycles are necessary, too, depending on the finish of the material. Please ask us for delivery times and minimum quantities.

#### **Important Note:**

We are able to set the gloss grade of surfaces; this is quite simply done with the help of UV lacquerings. We are able to match the customer's colour requirements by adding pigments or by staining the material. It is always important to receive corresponding colour patterns. It would be ideal to receive 3 different samples:

Colour sample / gloss grade sample: marked with the entire customer data

Size preferred  $\sim 20 \times 30 \text{ cm}$  (DIN A4)

- 1. Ideal Sample
- 2. Lightest Sample
- 3. Darkest Sample

Please note that the higher the requirements of our lacquerings are, the better the submitted samples must be.

We are prepared to adapt to your demands!

We lacquer more than 500,000 sqm of veneer edges, softforming edges, reconstituted veneer edges, and profile wrapping veneers annually.

If Furwa uses the expression "<u>overpaintability</u>" for some kinds of lacquer, we talk about our experiences which, however, <u>have to be checked upon by the user by making own tests</u>. We cannot test all kinds of lacquers used in the world market, and kindly ask you to always test them yourself in every case.