

MADE IN GERMANY

--- INNOVATIVE PRODUCTS FOR GENERAL AVIATION ---

ORATEX® UL 600

ORATEX® UL 600, the world-wide patented aircraft covering for ultralight, microlight and LSA with a MTOW of up to 600 kg.

Innovation has always been one of the excellence goals of **LANITZ-PRENA FOLIEN FACTORY GmbH**. We threw away the book on conventional covering techniques for the development of the **ORATEX®** product range for General Aviation, and applied principles drawn from model aircraft covering technologies, which have been time-tested for more than 20 years and which have world-wide patents.

ORATEX® UL 600 is a pre-finished aircraft covering, developed to be ironed onto the airframe and held in place by means of a heat-activated dispersion adhesive. This advanced adhesive formulation contains a heat-activated crosslink agent which polymerises the adhesive for a permanent bond and is designed for use at temperatures of approx. 130°C.

You are invited to try a free of charge sample and learn more about this unique product and all its benefits. This advanced covering system is very different from those currently available, so please take your time to read the instructions carefully before you test this high-tech product. No more smells, no more dope, solvents and thinners. No more time pressure. Just relax and cover your aircraft. The photos show some of the aircraft using **ORATEX® UL 600** covering.



AVAILABLE COLOURS AND WIDTHS OF ORATEX® UL 600

colour	width	ref. no.	width	ref. no.
natural white	900 mm	12-000-090	1800 mm	12-000-180
white	900 mm	12-010-090	1800 mm	12-010-180
antique	900 mm	12-012-090	1800 mm	12-012-180
olive drab	900 mm	12-018-090	1800 mm	12-018-180

colour	width	ref. no.	width	ref. no.
corsair blue	900 mm	12-019-090	1800 mm	12-019-180
fokker red	900 mm	12-020-090	1800 mm	12-020-180
cub yellow	900 mm	12-030-090	1800 mm	12-030-180
silver	900 mm	12-091-090	1800 mm	12-091-180

Specifications of ORATEX® UL 600

Material: colour-coated polyester fabric (canvas bond), **Square weight (uncoated):** approx. 2,06 oz/yd sq, **Square weight (coated):** approx. 3,24 oz/yd sq (depending on colour), **Tensile strength lengthwise:** min. 2230 ozf/1,97 in, **Tensile strength crosswise:** min. 2086 ozf/1,97 in, **Tensile strength lengthwise after UV exposure:** min. 2200 ozf/1,97 in, **Tensile strength crosswise after UV exposure:** min. 2000 ozf/1,97 in, **Elongation lengthwise:** approx. 30 %, **Elongation crosswise:** approx. 40 %, **Tear propagation load lengthwise:** min. 50,3 ozf (steady between 22 °F to 122 °F), **Tear propagation load crosswise:** min. 35,9 ozf (steady between 22 °F to 122 °F), **Burst strength:** min. 61 psi, **Burst elevation:** approx. 0,98 in, **Adhesion strength of the coating lengthwise:** min. 72 ozf, **Adhesion strength of the coating crosswise:** min. 72 ozf, **Shrinkage lengthwise (338 f):** min. 7 %, **Shrinkage crosswise (338 f):** min. 5 %, **Air permeability:** airtight, **Inflammability:** does not ignite (fabric melts by flame external hazard), **Fusion point:** 482 °F, **more characteristics:** fuel-resistant, can be painted

ORATEX® HOTMELT DISPERSION ADHESIVE

The **ORATEX®** HOTMELT DISPERSION ADHESIVE is an revolutionary world-wide patented product which works without the bad smells associated with conventional adhesives. It is applied to the structure to be covered and onto those parts of the covering which are to be ironed onto the airframe. You can use either a synthetic fibre brush or a spray gun. When the adhesive has dried you can iron the covering onto the airframe. If you have no more time, you can do it tomorrow, or the day after tomorrow, or whenever you have the time...



ORATEX® HOTMELT DISPERSION ADHESIVE is available in the following sizes (shelf life approx. 6 month).

product	quantity	ref. no.
ORATEX® HOTMELT DISPERSION ADHESIVE	50 ml	0974
ORATEX® HOTMELT DISPERSION ADHESIVE	100 ml	0975
ORATEX® HOTMELT DISPERSION ADHESIVE	500 ml	0976

product	quantity	ref. no.
ORATEX® HOTMELT DISPERSION ADHESIVE	1 litre	0977
ORATEX® HOTMELT DISPERSION ADHESIVE	5 litres	0978
ORATEX® HOTMELT DISPERSION ADHESIVE	10 litres	0979

ORATEX® HOTMELT DISPERSION ADHESIVE as a twin pack (separate hardener) is available in the following sizes (shelf life more than 12 months).

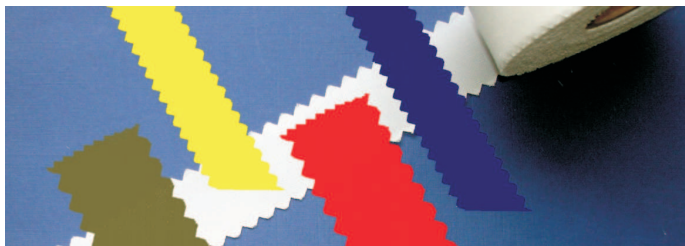
- separate components -	1 litre	0987
- separate components -	5 litres	0988
- separate components -	10 litres	0989

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--- PRODUCTS FOR GENERAL AVIATION ---

ORATEX® PINKED EDGE TAPE ORATEX® STRAIGHT EDGE TAPE

APPLICATION INSTRUCTIONS



ORATEX® PINKED EDGE TAPE is available as a heat-sealable product with 1.7 - 15 cm in width. It is produced in all **ORATEX®** colours. **ORATEX® PINKED EDGE TAPE** can be applied where seams overlap or have to be reinforced. It can also be used as turbulator tape. Customised dimensions (width/length) available on request.

ORATEX® STRAIGHT EDGE TAPE is available as a heat-sealable product with 2.5 - 12.5 cm in width. It is produced in all **ORATEX®** colours. **ORATEX® STRAIGHT EDGE TAPE** can be applied where seams overlap or have to be reinforced. It can also be used as turbulator tape. Customised dimensions (width/length) available on request.

A: For rib stitched or sewn covering

Apply masking tape to the covering around the seams, the tape should have a 5mm margin either side of the stitching. Apply a coating of **ORATEX® HOTMELT DISPERSION ADHESIVE** to the masked off area and remove the masking tape, allow to dry thoroughly, ideally overnight. When the adhesive has dried **ORATEX® PINKED EDGE TAPE** or **STRAIGHT EDGE TAPE** can be ironed on to the seams. The ironing temperature should be in the range of 80 to 90 °C. If a higher temperature is selected there is the risk that **ORATEX® PINKED EDGE TAPE** or **STRAIGHT EDGE TAPE** will start to shrink.

IMPORTANT: When choosing the correct width of tape **ORATEX® PINKED EDGE TAPE** or **STRAIGHT EDGE TAPE** must be wider than the adhesive applied to ensure complete coverage.

B: Application as reinforcement or turbulator tape

Simply iron the **ORATEX® PINKED EDGE TAPE** or **STRAIGHT EDGE TAPE** on to the desired area, the ironing temperature should be in the range of 80 - 90°C. If a higher temperature is selected there is the risk that **ORATEX® PINKED EDGE TAPE** or **STRAIGHT EDGE TAPE** will start to shrink. In locations of difficult adhesion, benefit may be obtained by pre-coating the surface as in "A" with **ORATEX HOTMELT DISPERSION ADHESIVE**.

ORATEX® PINK EDGE TAPE length: 25 m

colour	width: 17 mm	width: 25 mm	width: 50 mm	width: 75 mm	width: 100 mm	width: 125 mm	width: 150 mm
natural w hite	15-000-017	15-000-025	15-000-050	15-000-075	15-000-100	15-000-125	15-000-150
w hite	15-010-017	15-010-025	15-010-050	15-010-075	15-010-100	15-010-125	15-010-150
antique	15-012-017	15-012-025	15-012-050	15-012-075	15-012-100	15-012-125	15-012-150
olive drab	15-018-017	15-018-025	15-018-050	15-018-075	15-018-100	15-018-125	15-018-150
corsair blue	15-019-017	15-019-025	15-019-050	15-019-075	15-019-100	15-019-125	15-019-150
fokker red	15-020-017	15-020-025	15-020-050	15-020-075	15-020-100	15-020-125	15-020-150
cub yellow	15-030-017	15-030-025	15-030-050	15-030-075	15-030-100	15-030-125	15-030-150
silver	15-091-017	15-091-025	15-091-050	15-091-075	15-091-100	15-091-125	15-091-150

ORATEX® STRAIGHT EDGE TAPE length: 25 m

colour	width: 25 mm	width: 35 mm	width: 50 mm	width: 75 mm	width: 100 mm	width: 125 mm
natural w hite	16-000-025	16-000-035	16-000-050	16-000-075	16-000-100	16-000-125
w hite	16-010-025	16-010-035	16-010-050	16-010-075	16-010-100	16-010-125
antique	16-012-025	16-012-035	16-012-050	16-012-075	16-012-100	16-012-125
olive drab	16-018-025	16-018-035	16-018-050	16-018-075	16-018-100	16-018-125
corsair blue	16-019-025	16-019-035	16-019-050	16-019-075	16-019-100	16-019-125
fokker red	16-020-025	16-020-035	16-020-050	16-020-075	16-020-100	16-020-125
cub yellow	16-030-025	16-030-035	16-030-050	16-030-075	16-030-100	16-030-125
silver	16-091-025	16-091-035	16-091-050	16-091-075	16-091-100	16-091-125

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