

folex[®]

CONTRACT COATING

Fast & Flexible

the fine art of coating

folex[®]

Folex AG
Bahnhofstrasse 92
6423 Seewen SZ
Switzerland
phone +41 41 819 39 39
fax +41 41 810 01 35
int.sales@folex.ch
www.folex.com

Folex Coating GmbH
Unnauer Weg 6c
50767 Köln
Germany
phone +49 221 97 94 79 0
fax +49 221 97 94 79 9
info@folex.de
www.folex.de

Regulus GmbH
Paul-Gossen-Str. 114
91052 Erlangen
Germany
phone +49 9131 3002 0
fax +49 9131 1349 9
info@regulus.de
www.regulus.de

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CONTRACT
COATING



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YOUR PARTNER WITH MORE THAN 100 YEARS EXPERIENCE IN COATING AND CONVERTING

The Folex Group specialises in the finishing and coating of films and specialities and has production companies based in Switzerland (Schwyz) and Germany (Cologne, Erlangen) that offer high-quality products and tailor made services for a wide variety of markets. The Folex product world comprehends solutions from the printing industry or digital and large-format printing, the office and home sector, all the way to primary products for the electronics industry. In addition to which, we have also developed extensive skills in membrane separation technology. Especially in the field of contract coating, Folex customers can participate from our wide know-how and production possibilities.

We coat on your substrate according to your formulation recipes or develop together with you a complete solution. Our services include:

Film thickness:
0.005 – 2.00 mm
All substrates like PET, PC, PVC, PMMA, PE, PP, paper, metal films etc.

Coating width:
up to 165 cm

Thickness of dry coating:
0.1 – 80 µm, treatment of both sides

Cleanroom converting:
VDI 2083/3 / EN ISO 14644-1/3, Class 7

1. FORMULATION

- Storage
- Dissolving
- Mixing
- Dispersing
- Filling
- Turraxing
- Grinding
- Shipping

Customer supplied formulations are coated by us, can be further developed and / or modified. However, formulations can also be produced and coated or shipped by us in cans or containers.

2. COATING

- Clean room coating
- Thermal drying
- UV hardening
- Corona treatment
- Atmospheric plasma
- Laboratory and pilot coating lines
- Embossing
- Water based and solvent based formulations
- Hotmelt (narrow web)
- Thermal stabilization
- Lamination up to 2mm total thickness
- Modern exhaust gas treatment with regenerative heat exchange

3. CONVERTING

We convert to the requested sizes and box the materials. Logistics according to your request on three sites (Schwyz, Cologne and Erlangen).

CLEANROOM CONVERTING

VDI 2083/3 / EN ISO 14644-1/3, Class 8

SHEET CONVERTING

ROLL CONVERTING (SMALL AND SHORT ROLLS)

OPTIONS

- Interleaving paper or film
- Single sided or double sided protection film
- Paperbacking
- Perforation
- Rewinding
- Assembling

Please ask for your specific solution: customercc@folex.ch

More informations under www.folex.com

CONTRACT
COATING



PRODUCTION MACHINES

LOCATION	SCHWYZ	SCHWYZ	SCHWYZ	COLOGNE	ERLANGEN	ERLANGEN	ERLANGEN
COATING METHOD	REVERSE ROLL / WIRE-BAR	REVERSE ROLL	REVERSE ROLL	WIRE-BAR	3 TROLLIES WITH MULTI-PRESSURE-GRAVURE, KNIFE OVER ROLL, NOZZLE WITH WIRE-BAR	NOZZLE WITH WIRE-BAR, KNIFE OVER ROLL OR CLASSIC WIRE-BAR	HOTMELT WITH NOZZLE
GROUND SPEED MIN.	1 M/MIN.	5 M/MIN.	2 M/MIN.	1 M/MIN.	5 M/MIN.	6 M/MIN.	20 M/MIN.
GROUND SPEED MAX.	16 M/MIN.	55 M/MIN.	70 M/MIN.	15 RESP. 30 M/MIN.	200 M/MIN.	80 M/MIN.	150 M/MIN.
INSTALLATION COATING STATION	MODULAR	FIXED INSTALLED	FIXED INSTALLED	MODULAR	MODULAR	PARTIALLY MODULAR	MODULAR
COATING CHEMICAL							
TYPES	SOLVENT/DISPERSION	SOLVENT/DISPERSION	SOLVENT/DISPERSION	SOLVENT/DISPERSION	SOLVENT/DISPERSION	SOLVENT/DISPERSION	HOTMELT
WET FILM THICKNESS MIN.	30 / 1 MY	30 MY	30 MY	10 MY	5 MY	10 MY	N/A
WET FILM THICKNESS MAX.	400 MY	300 MY	400 MY	250 MY	180 MY	245 MY	N/A
COATING WEIGHTS (DRIED)	0.2 - 100 / 0.2 - 200 G/M ²	0.2 - 80 G/M ²	0.2 - 100 G/M ²	0.2 - 125 G/M ²	2 - 80 G/M ²	0.5 - 40, 5 - 140, 10 G/M ²	20 - 150 G/M ²
UNWINDING STATION							
ROLL WEIGHT MAX.	400 KG	400 KG	1000 KG	1250 KG	1200 KG	500 KG	40 KG
OUTSIDE DIAMETER ROLL MAX.	640 MM	720 MM	1000 MM	790 MM	800 MM	500 MM	600 MM
WEB WIDTH MAX.	1600 MM	1310 MM	1700 MM	1650 MM	1580 MM	1300 MM	380 MM
MATERIAL THICKNESS MAX.	1000 MY	800 MY	250 MY	2500 MY	450 MY	500 MY	300 MY
MATERIAL THICKNESS MIN.	19 MY	36 MY	12 MY	12 MY	12 MY	12 MY	23 MY
INLINE COATING - WEIGHT MEASURING	•	•	•	-	•	-	-
CONTINUOUS DRIVING	•	•	•	•	•	-	-
COATING STATION							
NUMBER OF COATING STATIONS	1	2	1	1	1	2	1
COATING WIDTH MIN.	800 MM	800 MM	600 MM	900 MM	600 MM	600 MM	20 MM
COATING WIDTH MAX.	1580 MM	1300 MM	1680 MM	1600 MM	1530 MM	1280 MM	350 MM
UNCOATED EDGE	NECESSARY	NECESSARY	NECESSARY	NECESSARY	NECESSARY	NECESSARY	NECESSARY
TEMPERING COATING SOLUTION	•	•	•	•	-	-	•
TEMPERING ROLL	-	-	•	-	-	-	-
MINIMUM VOLUME COATING SOLUTION	50/20 L	70 L	80 L	20 L	60 L	40 L	N.S.
STANDARD VOLUME COATING SOLUTION	OPEN	OPEN	OPEN	25 L	OPEN	OPEN	OPEN
EXTRACTION VIA COATING PLANT	•	•	•	•	•	•	-
CORONA TREATMENT	CORONA	CORONA	CORONA	CORONA/PLASMA	CORONA	CORONA	CORONA
DRYING							
DRYING TYPE	ROLLER	ROLLER	AIR FLOATATION	ROLLER	THERMAL DRYING	THERMAL DRYING	-
DRIVE MECHANISM	-	•	-	-	•	•	-
LENGTH DRYING CHANNEL	8 M	6.4 RESP 9.6 M	CA. 10 M	CA. 9 M	24 M	3 (RECEIVING-DRYER) + 17 M	-
DRYING TEMPERATURE MAX.	150 °C	210 °C	210 °C	CA. 180 °C	150 °C	110 °C	-
SECTIONS	3	4 RESP 6	3	3	6	1 (RECEIVING-DRYER) + 7 M	-
FILTRATION OF THE SUPPLY AIR (FILTER CLASS)	H13	H11	H14	FILTERED	FILTERED	FILTERED	-
CONTACTLESS WINDING	•	-	-	-	-	-	-
WEB EDGE CONTROL BEFORE WINDING	-	•	•	-	•	•	•
UV DRYER, HG-LAMPS	•	-	•	•	-	-	-
LAMINATOR	•	-	•	•	•	•	•
REWINDER STATION							
ROLL WIDTH MAX.	1580 MM	1310 MM	1750 MM	1650 MM	1580 MM	1300 MM	380 MM
INLINE SLITTING STATION	•	•	-	-	•	•	•
ROLL WIDTH MIN.	750 MM	750 MM	550 MM	900 MM	300 MM	250 MM	120 MM
ROLL WEIGHT MAX.	400 KG	400 KG	1000 KG	1250 KG	1200 KG	500 KG	70 KG
OUTER DIAMETER ROLL MAX.	640 MM	680 MM	1000 MM	790 MM	1000 MM	500 MM	600 MM
CORE INNSIDE DIAMETER	3 AND 6 INCHES	6 INCHES	6 INCHES	(3 AND) 6 INCHES	3 AND 6 INCHES	3 AND 6 INCHES	3 AND 6 INCHES
VARIOUS							
HOUSING COATING STATION	•	•	•	•	-	-	-
CLEAN ROOM/HOUSING MACHINE	HOUSING WHOLE MACHINE	-	CLEANROOM	-	-	-	-
CAMERA FOR DEFECT DETECTION	•	-	•	-	-	-	-

PILOT PLANTS

PLANT	JAGENBERG	PBA
MODEL	LABORATORY MACHINE	PILOT COATER
LOCATION	SCHWYZ	SCHWYZ
CONTRACT METHOD	WIRE-BAR DIP COATING	WIRE-BAR REVERSE ROLL DIP COATING
INSTALLATION COATING STATION	MODULAR	MODULAR
SUITABILITY FOR ADAPTION OFF SLOT-DIE	•	•
GROUND SPEED MIN.	1 M/MIN.	1.5 M/MIN.
GROUND SPEED MAX.	15 M/MIN.	12 M/MIN.
NUMBER OF COATING STATIONS	1	1
COATING CHEMICAL	SOLVENT/DISPERSION	SOLVENT/DISPERSION
TEMPERING COATING SOLUTION	•	•
TEMPERING ROLL	-	-
WET FILM THICKNESS MIN.	10 MY	10 MY
WET FILM THICKNESS MAX.	300 MY	400 MY
MINIMUM VOLUME COATING SOLUTION	0.25 L	2 RESP 12 L
STANDARD VOLUME COATING SOLUTION	300 L	0.5 RESP 25 L
UNWIND/REWIND STATION		
ROLL WEIGHT MAX.	50 KG	200 KG
OUTSIDE DIAMETER ROLL MAX.	400 MM	560 MM
WEB WIDTH MIN.	150 MM	280 MM
WEB WIDTH IDEAL	280 MM	630 MM
WEB WIDTH MAX.	290 MM	670 MM
CORE INSIDE DIAMETER	3 INCHES	3 AND 6 INCHES
COATING STATIONS		
COATING WIDTH MIN.	100 MM	200 MM
COATING WIDTH OPT.	280 MM	580 MM
COATING WIDTH MAX.	290 MM	670 MM
UNCOATED EDGE	•	•
AIR EXTRACTION ABOVE COATING UNIT	•	•
CORONA TREATMENT	CORONA	CORONA
DRYING		
DRYER TYPE	ROLL	ROLL
UV DRYER	-	•
DRYER LENGTH	3 M	2 X 2.5 M
DRYER TEMPERATURE MAX.	140 °C	140 °C
COOLING	•	•
LAMINATOR	•	•

