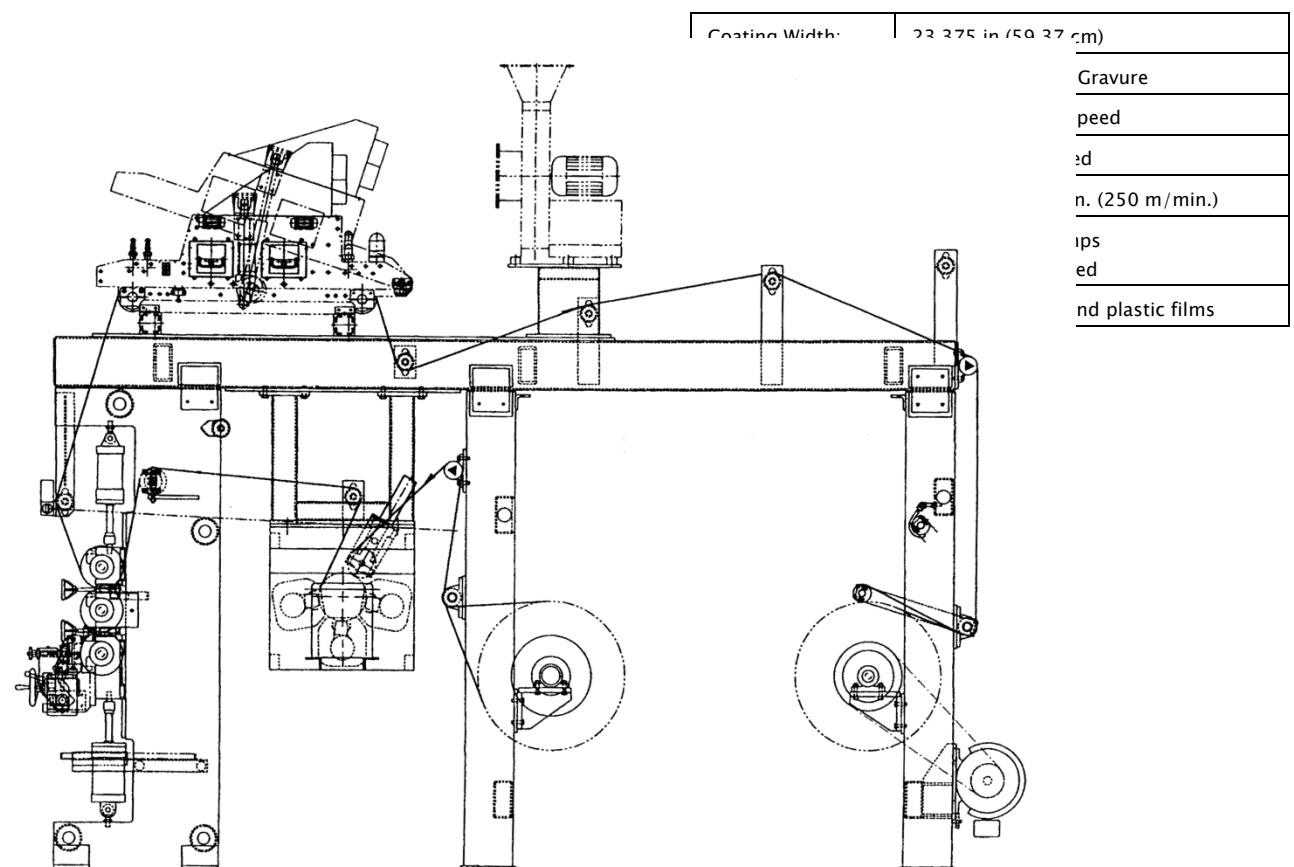


Test Facility

US pilot coating line

Our Hopewell technical centre offers a state of the art pilot facility for trials with our customers. The line was built by Faustel, Germantown WI (USA) and was installed in Hopewell in August 1998. It includes an Enercon Corona Treater and Eltosch lamps. The pilot coating line is available for customer trials free of charge. It has been successfully used to as a demonstration unit for all interested customers world-wide to practically prove the advantages of Goldschmidt's catalyst-free and "cold-curing" TEGO® RC Silicones on almost all paper and film substrates.



The coating station

The three-roll reverse gravure coating head has a coating width of both 610 mm (24 inches) and 457 mm (18 inches) with an enclosed doctor blade. All rolls can be driven independently. The three roll reverse gravure coater allows for coat weights as low as 0.5 g/m² up to 2.0 g/m². The enclosed doctor blade system is a Faustel design with centre mounted doctor blade. During trials, line speeds can be varied from 75 – 800 feet/min. (25 – 250 m/min.). All substrates whether paper or plastic films can be handled. The corona pre-treatment (necessary for good adhesion of the silicone to the substrate) is applied in-line.

Gravure roll

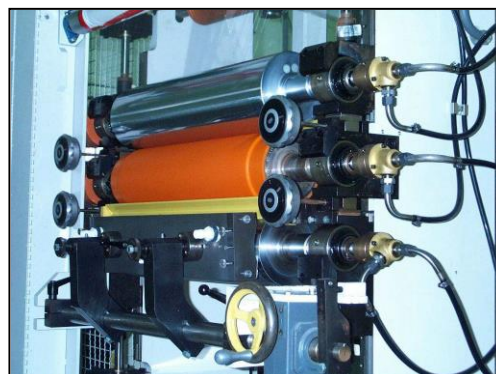
Speed 20 to 50 % of line speed, chrome plated roll
220 QCH CtWt 1.0 to 1.4 gsm, 260 QCH CtWt 0.8 to 1.06

Application roll

Speed 90 to 110 % of line speed, standard 98.5%, EPDM covered steel roll, hardness 60 Shore A

Footprints

Nip footprint should be a minimum between applicator and gravure, footprint to backing roll 11.5 mm, roll diameter 6.5 inches



The UV unit

The UV unit was built by Eltosch, Hamburg (Germany). It offers 2 arc UV lamps of 200 W/cm with adjustable power output from 40 – 400 W/cm. The nitrogen inerted curing chamber allows oxygen contents below 50 ppm. The nitrogen consumption at 250 m/min. is as low as 75 m³/h.

Contact

Please contact your Goldschmidt representative or Gary Freelin/Technical Service Manager in Hopewell for further discussions and trials. For trials, interested customers may ship their substrate rolls to Hopewell. Please note the roll dimensions below:

Max. silicone width	23,375 in (59.37 cm)
Max. substrate width	24 in (61 cm)
Max. diameter of roll	60 cm
Diameter of core	3 or 6 in (76 or 152 mm)

The shipping address for substrate rolls is:

Gary Freelin, Technical Service Manager
Degussa Goldschmidt Chemical Corp.
914. E. Randolph Road
Hopewell, Virginia 23860/USA
gary.freelin@degussa.com
Phone: #804 452-5760

Essen, March 2003, Version 08-2005

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