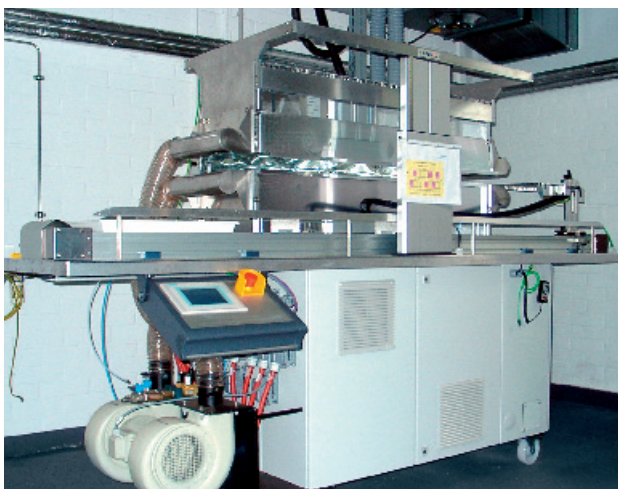
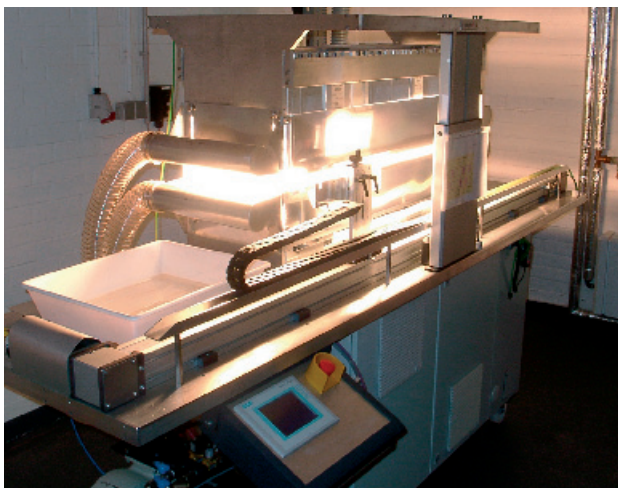
Business Line Polyesters and Adhesives invests in Coil Coating future technology

To meet our customers demands and live up to their future expectations, technical service group for DYNAPOL® coating polyesters (CO-PY-RT-TS, Dr. Thorsten Brand) invested in a NIR® (Near Infrared) Coil Technicum from AdPhos AG, Bruckmühl/ Germany, the worldwide leading supplier for modern NIR coating lines. For high speed applications of coil coating paints this new equipment represents the latest in paint technology.

The NIR® Coil Technicum allows to determine the NIR parameter for industrial production lines under laboratory conditions. The focused stoving times range from 2.5–4 seconds with peak metal temperatures of 200–250 °C.



NIR® Coil Technicum lab equipment



The good news is: The conventional chemistry works! The high curing speeds of continuously running NIR lines can basically be accomplished by the already well established chemistry (melamine or polyisocyanate systems). Compared to other modern curing systems (e.g. UV-hardening), only some NIR specific adjustments of the paint formulations are necessary, fast industrial implementation will be the benefit.

Since delivery and startup of NIR® Coil Technicum in last June/July extensive test series and paint formulation works based on our DYNAPOL® polyester resins are running with the objective to support our customers in entering into this new technology quickly and to extend one of our most important factors of success: service. Beside supplying DYNAPOL® coating polyester resins and providing specific NIR starting formulations, in future it will be possible to extrapolate our optimized curing process parameters to industrial coating lines by using particular AdPhos designed software.

For the time being, first successful completed test series for thinfilm coil coating primers for galvanized steel as well as for some high gloss coil coating top coats were introduced to selected customers on the Asian market.

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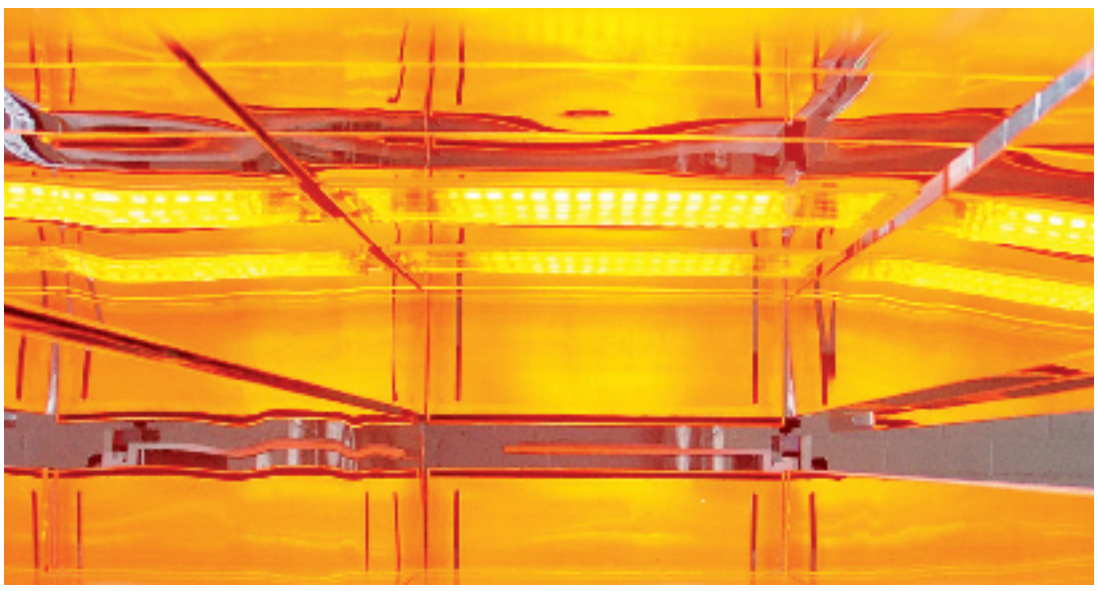

Interior view: High gloss reflector plates with NIR emitting quartz lamps