



ENERGX ULTRA: ultradurable low bake powder topcoat

efficient and sustainable



Efficient

The new ENVIROCRON® ENERGXTM ULTRA combines ultradurable weathering performance with efficient manufacturing processes and growing environmental awareness. The low temperature system with speed-cure option can significantly reduce throughput times in the manufacturing process and thus increases productivity.

Sustainable

Envirocron EnergX ULTRA is not only efficient, but also sustainably advantaged. Used as low bake system, *EnergX ULTRA* can reduce curing and oven temperatures without compromising on the property profile. This not only reduces CO₂-emissions, but also saves energy costs and optimizes the carbon footprint of manufactured components. *EnergX ULTRA* technology is specifically formulated without CMR and its ultradurable system with good corrosion protection provides an optimum shield against external influences, extending the component's life cycle.

Excellent process stability

In construction machinery, different and complex components are typically assembled into one unit, involving a wide range of material thicknesses on a single part. If the coating's processing window is too narrow, there is a risk of over- or under-baking, leading to a loss of important product properties. *Envirocron EnergX ULTRA* offers a large stoving window and thus a high level of process reliability. A wide range of valuable properties can be retained, even in the most complex and thin- or thick-walled components. *Envirocron EnergX ULTRA* powder coating is a blooming-resistant formulation and a protective finish that stands up against all weather extremes.

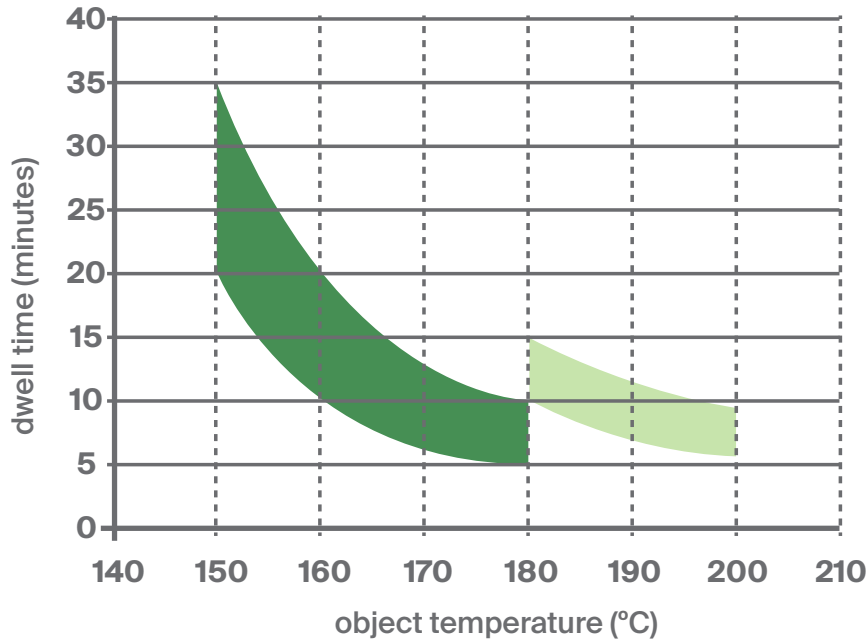
Benefits

- Ultradurable polyester with very good weather and chemical resistance
- Low temperature system with speed-cure option
- Wide processing window with high process stability
- Blooming-resistant
- Good storage stability
- Specifically formulated without CMR





Wide processing window



Benefits

- High process stability
- Reduced rework and reject rate
- Reduced risk of over- or under-baking
- Retention of important performance features; e.g. corrosion protection for thin- and thick- walled components
- Possibility to mix different metal gages
- No need to batch produce

- ENVIROCRON® ENERGXTM ULTRA
- Conventional ultradurable powder coating

Properties at a glance

Property / Test	Test Standard	Result
Gloss level and surface variants	-	gloss and semi-gloss (60-90 gloss units)
Erichsen cupping	DIN EN ISO 1520	on 0.8mm degreased steel > 2 mm*
Weathering resistance	DIN EN ISO 16747-2 DIN EN ISO 2813	after 1500h gloss retention (60°) >80%**
Humidity resistance, condensation water constant climate test	DIN EN ISO 6270-2 DIN EN ISO 4628-2 DIN EN ISO 4628-3 DIN EN ISO 2409	after 240h on degreased steel - degree of blistering 0 (S0) - degree of rust Ri 0 - adhesion GT 0
Corrosion resistance, neutral salt spray test	DIN EN ISO 9227 DIN EN ISO 4628-8 DBL 7391	after 1000h on zinc-phosphated steel - corrosion creep*** ≤2 mm - edge rust KR 1

*Strongly color-dependent, deviations upwards and downwards possible

**Color dependent, here tested on RAL 7035 as an example

***Test performed with Sikkens Scribe 1 mm



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