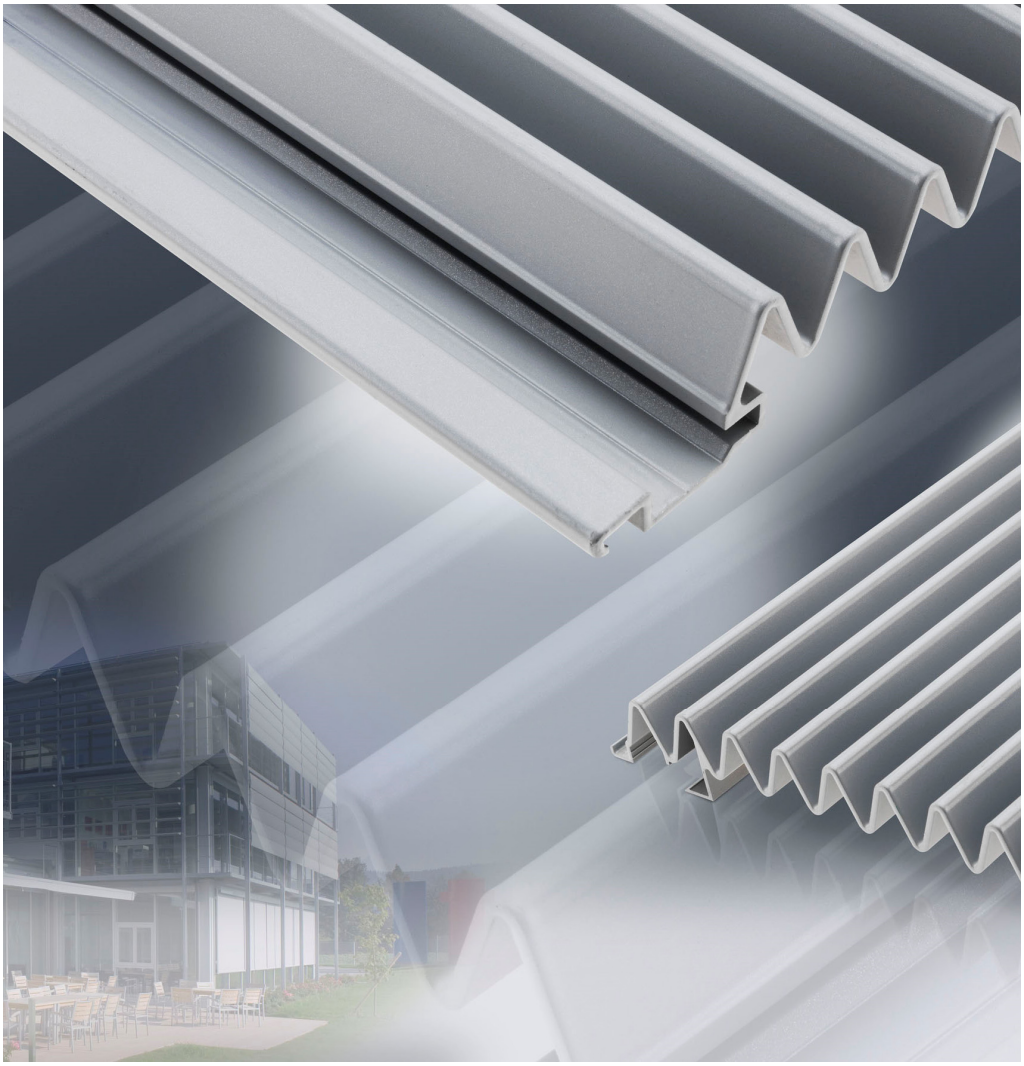


Primid Cross Linkers

PRIMID®

EMS





Primid

The global market leading range of hydroxyalkylamide (HAA) cross linkers for weathering resistant polyester powder coatings enables environmentally friendly and cost-effective protective finishes on metal surfaces.

Primid XL-552

Constant and high reactivity combined with a favorable toxicological profile makes Primid XL-552 the industry standard for weathering resistant powder coatings. Best cost-performance ratio compared to alternative cross linkers.

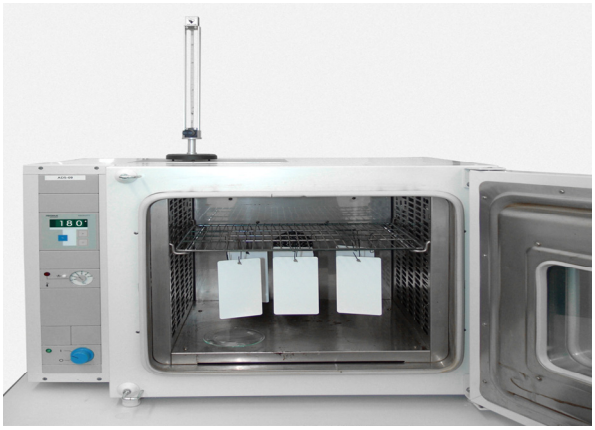


Fig. 1 Simulation of direct fired gas oven color resistance



Fig. 2 Primid coatings provide gloss and excellent mechanical properties

Primid QM-1260

Enhanced thermal color stability, particularly when cured in direct fired gas ovens. Best choice for powder coatings where high color control is required.

Primid SF-4510

The optimized reactivity profile of Primid SF-4510 provides a high gloss surface through excellent control of out-gassing properties.

Specialties

In addition to our standard range we provide further dedicated products to the powder coating industry, i.e. flexibilizers and waxes.

Technical Data

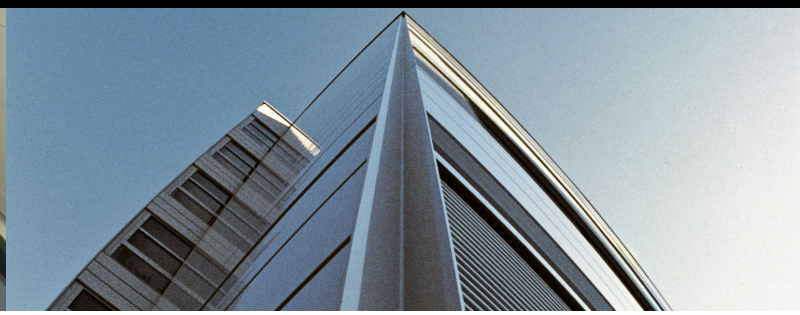
Primid	Color Gardner [1]	Melting Point [2] [°C]	Water Content [3] [%]	Hydroxyl Number [4]
XL-552	max 1.0	120 - 124	max 1.0	620 - 700
QM-1260	max 0.5	100 - 115	max 1.0	550 - 650
SF-4510	max 1.0	100 - 115	max 1.0	550 - 650

[1] ISO 4630, [2] Tottoli, [3] ISO 760, [4] EMS method

Primid is a white granular solid with a bulk density of approx. 0.7 g/cm^3 and a shelf life of 1 year from delivery date when stored in a dry place at temperatures between 0 °C and 40 °C.

Benefits / Technical Support





Primid Benefits

Costs

- High performance to cost ratio
- Low formulation- and reduced application costs
- Superior coating transfer efficiency
- Less powder reclaim, improved thickness control
- Lower energy costs from shorter curing cycles or reduced oven temperatures (curing from 160 °C)

Quality

- High purity
- Consistent batch-to-batch quality
- Excellent outdoor resistance
- Consistent quality of coated products

Security

- Clean toxicological profile
- REACH compliant
- No hazard labelling on powder coatings
- Global registration
- Curing speed independent from coating formulation
- Excellent powder coating storage stability
- Global supply security

Applications

- Architectural
- General industry
- ACE (Agriculture, Construction, Earth movement)
- Domestic appliance
- Automotive
- Liquid coatings

Technical Support

In addition to our 25 years of experience we offer a comprehensive range of world class testing and sample preparation capabilities. This combination provides worldwide unmatched support for your specific needs.

Laboratory powder coating production equipment

- High speed mixing
- Extrusion
- Grinding
- Spraying

Powder coating testing equipment

- Surface appearance
- Waviness / Orange peel
- Gloss
- Haze
- DOI (Distinctness of image)
- Mechanical properties
  - Reverse impact
  - Conical mandrel
  - Erichsen cupping
- Resistance properties
  - Weathering
  - Corrosion
  - Condensed water
  - Water spot

PRIMID® EMS



EMS-GRILTECH worldwide

www.emsgriltech.com

EMS-GRILTECH is a Business Unit of EMS-CHEMIE AG, which belongs to the EMS-CHEMIE HOLDING AG (www.ems-group.com).

We manufacture and sell Grilon, Nexylon and Nexylene fibers, Griltex thermoplastic adhesives, Grilbond bonding agents, Primid cross linkers for powder coatings and Grilonit reactive diluents. We have developed these materials and additives into outstanding specialty products for technically demanding applications. In this way, we create added value for our customers as they can also enjoy success in their own markets only through continuous improvement.

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