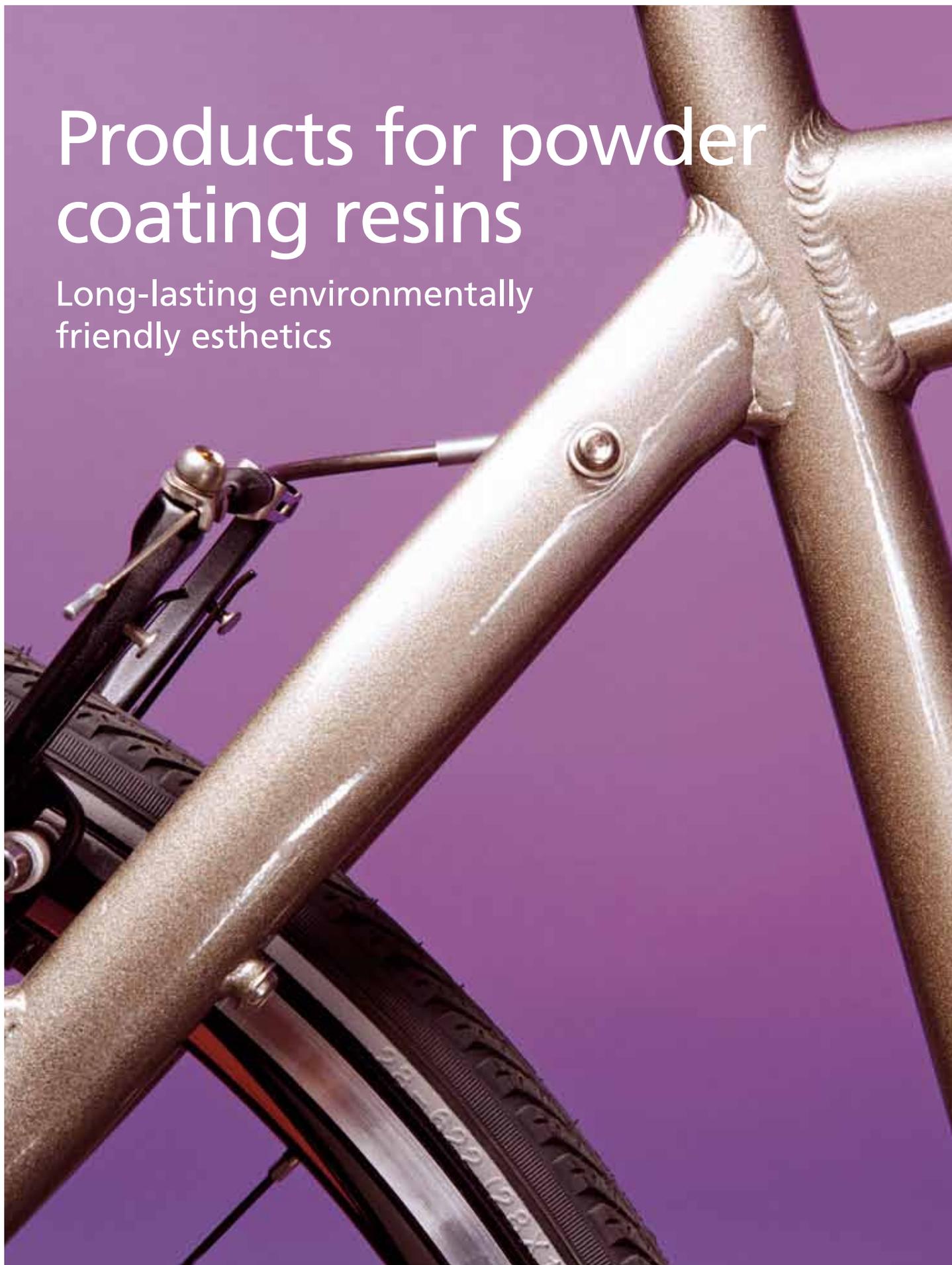
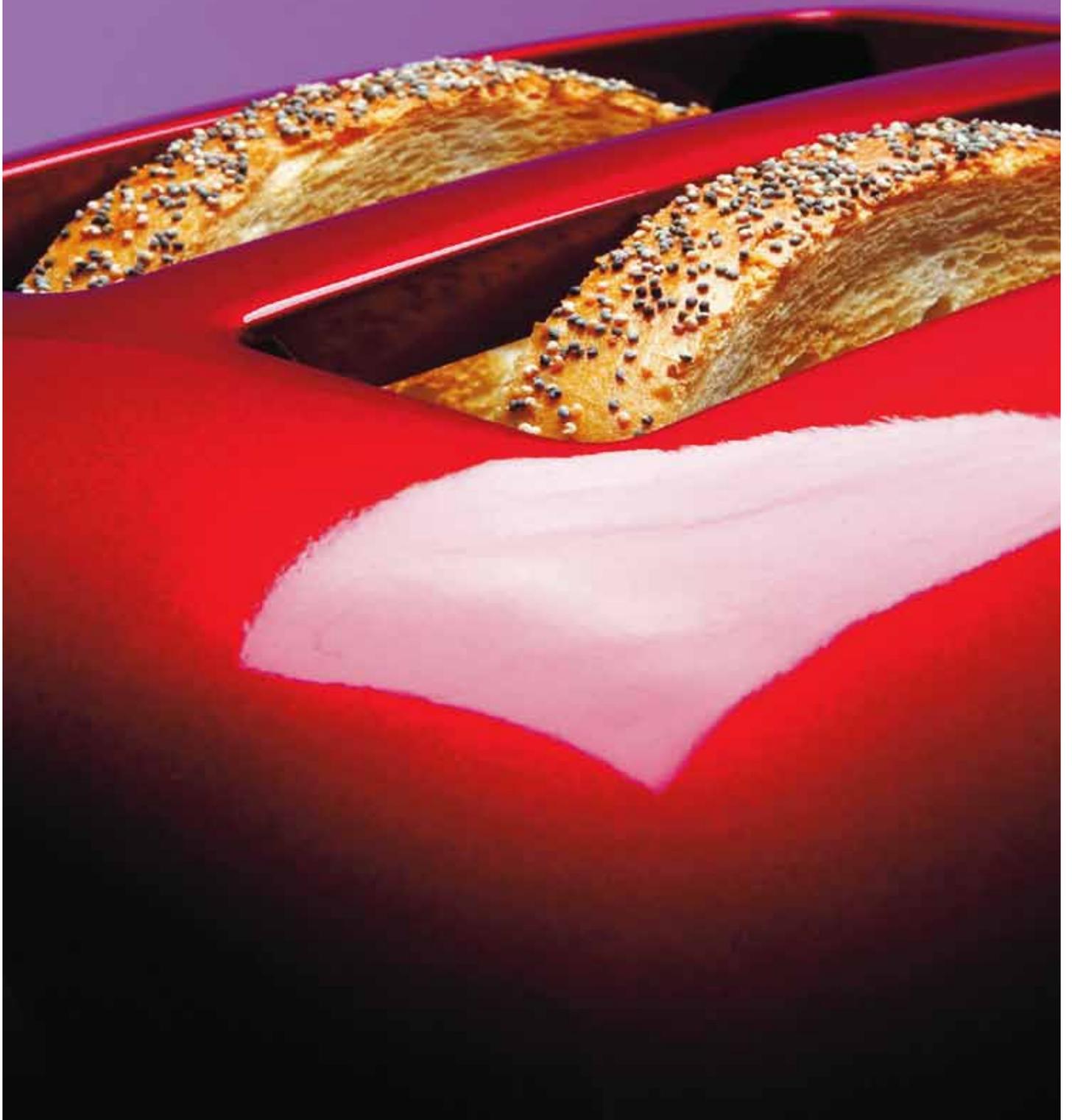


Products for powder coating resins

Long-lasting environmentally friendly esthetics



{ smooth coating }





Long-lasting environmentally friendly esthetics

Sustainable solutions for quality & cost-effectiveness

Is it possible to achieve the best quality and most durable, esthetic finish in a coating with a cost-effective and environmentally friendly solution?

Powder coating is one of the most economical coating solutions and is also one of the most environmentally friendly. We offer the powder coatings industry raw materials for the production of resins. Our products have a range of quality enhancing properties that help you create coatings with a uniform, durable and attractive finish. Our commitment to the global powder coating market is now even stronger with our investment in increased polyol capacity. A new manufacturing unit for Neopentyl Glycol in China secures the supply needs for both the Asian market and our global customers.

The growth of the powder coatings industry during the last twenty years has been dramatic, with new applications continually being developed to ensure ever expanding market penetration in a wide range of industries.

The powder used for the process is a mixture of finely ground particles of pigments, resins, fillers and additives, which are sprayed onto the surface to be coated. The charged powder particles adhere to the electrically grounded surfaces until heated and fused into a smooth coating in a curing oven or under infrared radiation.

Powder coatings are increasingly used in:

- architectural applications
- domestic appliances
- transportation/automotive applications
- general industrial applications

Our products for powder coating resins:

Neo (Neopentyl Glycol)

An essential glycol for durable and high-quality powder polyesters

BEPD (Butyl Ethyl Propanediol)

A unique glycol for enhancing the outdoor durability of polyesters

TMP (Trimethylolpropane)

A branching monomer for powder polyesters

1.6-Hexanediol

A linear aliphatic diol for improved flexibility

PIA (Purified Isophthalic Acid)

An aromatic di-carboxylic acid with exceptional purity for superior outdoor durability

Expanding choice

The building blocks of quality

Neo – essential for quality & durability

Neo (Neopentyl Glycol) is the glycol of choice for most polyesters, imparting improved hydrolytic stability and superior weathering and chemical and water resistance. Its symmetric structure is the most adequate for achieving the required glass transition temperature (T_g) of powder polyesters.

Neo can be delivered globally, in solid form as flakes at ambient temperature, in molten form at elevated temperatures or as Neo 90, a 90% solution in water.

Neo (Neopentyl Glycol)

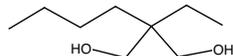


BEPD – outstanding outdoor performance

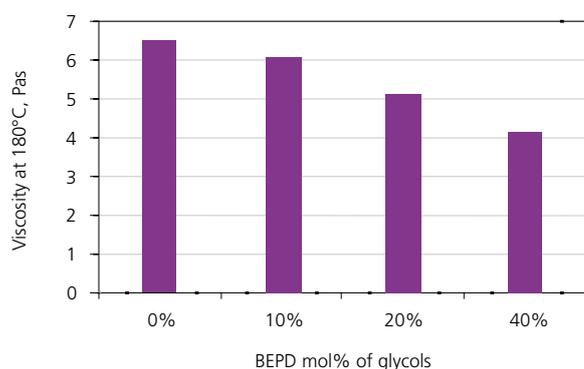
BEPD (Butyl Ethyl Propanediol) is a branched hydrophobic glycol that imparts outstanding durability to powder polyester resins used in outdoor conditions.

Using BEPD as a co-glycol with Neo lowers the viscosity of polyesters while retaining suitable T_g, which allows better leveling and a wider processing window. It also enhances the outdoor durability of polyester based powder coatings. The product is available as solid or molten BEPD or as BEPD70L, which is more adequate for bulk delivery. BEPD70L is a blend of 70% BEPD, 25% Neo and 5% water.

BEPD (Butyl Ethyl Propanediol)



BEPD as a co-glycol decreases the viscosity of the polyester resin

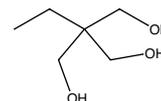


TMP – the safe branching monomer

TMP (Trimethylolpropane) is an important raw material for high-quality industrial resins, typically used in concentrations of between 1% and 5% in order to branch the polyester to increase functionality. It has excellent thermal stability that secures the desired branching. Furthermore, it has a low melting point and is available in flaked form or as hot liquid. TMP is a non hazardous chemical and easy to handle and easy to process.

Our superior supply capacity makes us the global leader in manufacturing TMP.

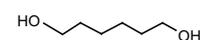
TMP (Trimethylolpropane)



1.6-Hexanediol – for improved flexibility

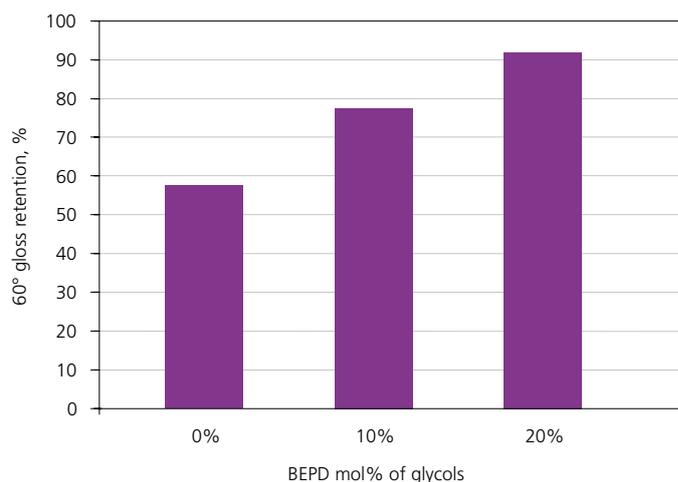
1.6-Hexanediol is a linear aliphatic diol that can be used in small amounts in certain applications to improve impact resistance. It has a low melting point and is available as a bulk product in molten form.

1.6-Hexanediol



BEPD improves the weatherability of Primid powder coatings

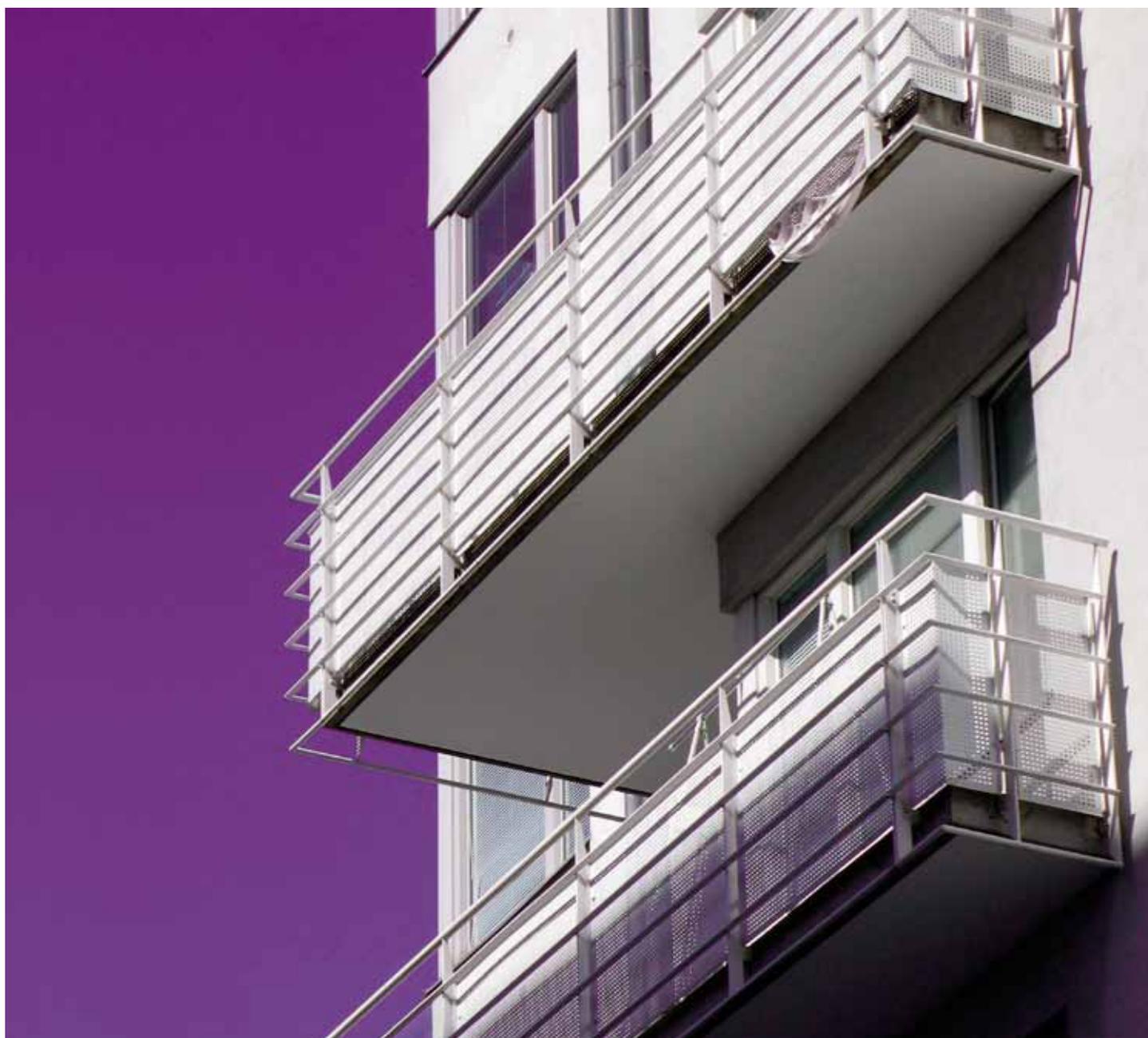
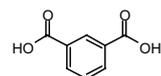
1 year Florida exposure, gloss 60° retention

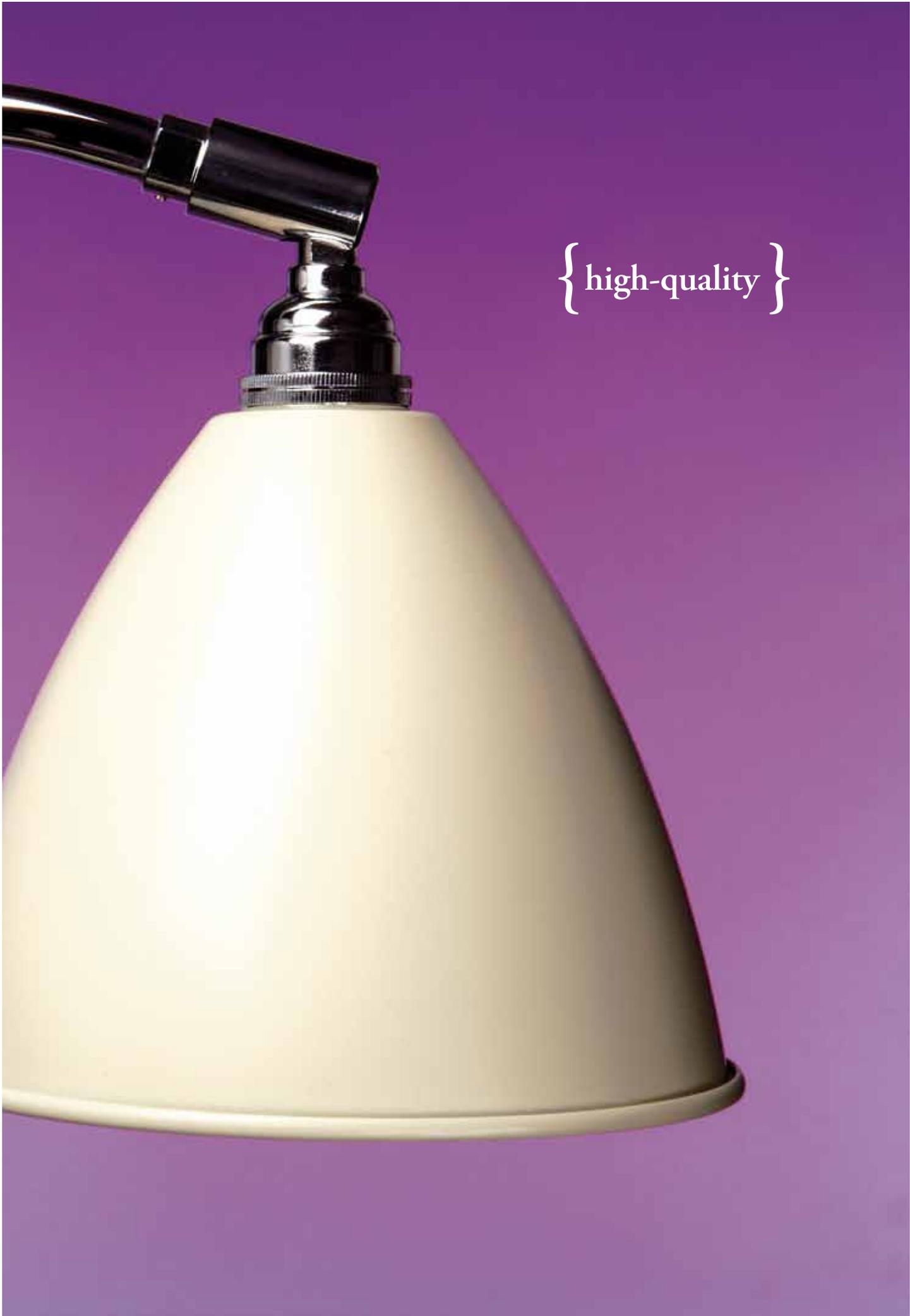


PIA – specialty acid for superior weatherability

Our PIA (Purified Isophthalic Acid) is an aromatic dicarboxylic acid of exceptional purity. In powder polyesters, PIA is used to fully or partially replace terephthalic acid in order to improve the outdoor durability of powder coatings.

PIA (Purified Isophthalic Acid)





{ high-quality }

Product data summary

Polyols for resins				
<i>Glycols</i>				
Products	Appearance	OH-value (mg KOH/g)	Molecular weight (g/mol)	Melting point (°C)
Neo (Neopentyl Glycol)	Flakes	1,075	104.1	129
Neo 90	Liquid (90% in water)	1,075*	104.1	35
BEPD (Butyl Ethyl Propanediol)	Semi-crystalline	695	106.2	44
BEPD70L	Liquid		143.9	<21
1.6-Hexanediol	Wax	950	118.2	43
<i>Branching monomer</i>				
TMP (Trimethylolpropane)	Flakes	1,247	134.2	59

* Water free

Acids for resins				
<i>Carboxylic acid</i>				
Product	Appearance	Purity W% min.	Acid value mg KOH/g	Molecular weight g/mol
PIA (Purified Isophthalic Acid)	White crystals	99.8	673–677	116.2





Your Winning Formula

The Perstorp Group, a trusted world leader in specialty chemicals, places focused innovation at your fingertips. Our culture of performance builds on 130 years of experience and represents a complete chain of solutions in organic chemistry, process technology and application development.

Matched to your business needs, our versatile intermediates enhance the quality, performance and profitability of your products and processes. This is how we enable you to meet market demands for safer, lighter, more durable and environmentally sound end-products – for the aerospace, marine, coatings, chemicals, plastics, engineering, and construction industries, as well as automotive, agricultural, food, packaging, textile, paper and electronics applications.

Our chemistry is backed by reliable business practices and a global commitment to responsiveness and flexibility. Consistent high quality, capacity and delivery security are ensured through strategic production plants in Asia, Europe and North America, as well as sales offices in all major markets. Likewise, we combine product and application assistance with the very best in technical support.

As we look to the future, we strive for the development of smarter and safer products and sustainable processes that reduce environmental impact and create real value in new chemical applications. This principle of proactive innovation and responsibility applies not only to our own business, but also to our work with yours. In fulfilling it, we partner with you to create a winning formula that benefits your business – as well as the people it serves.

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