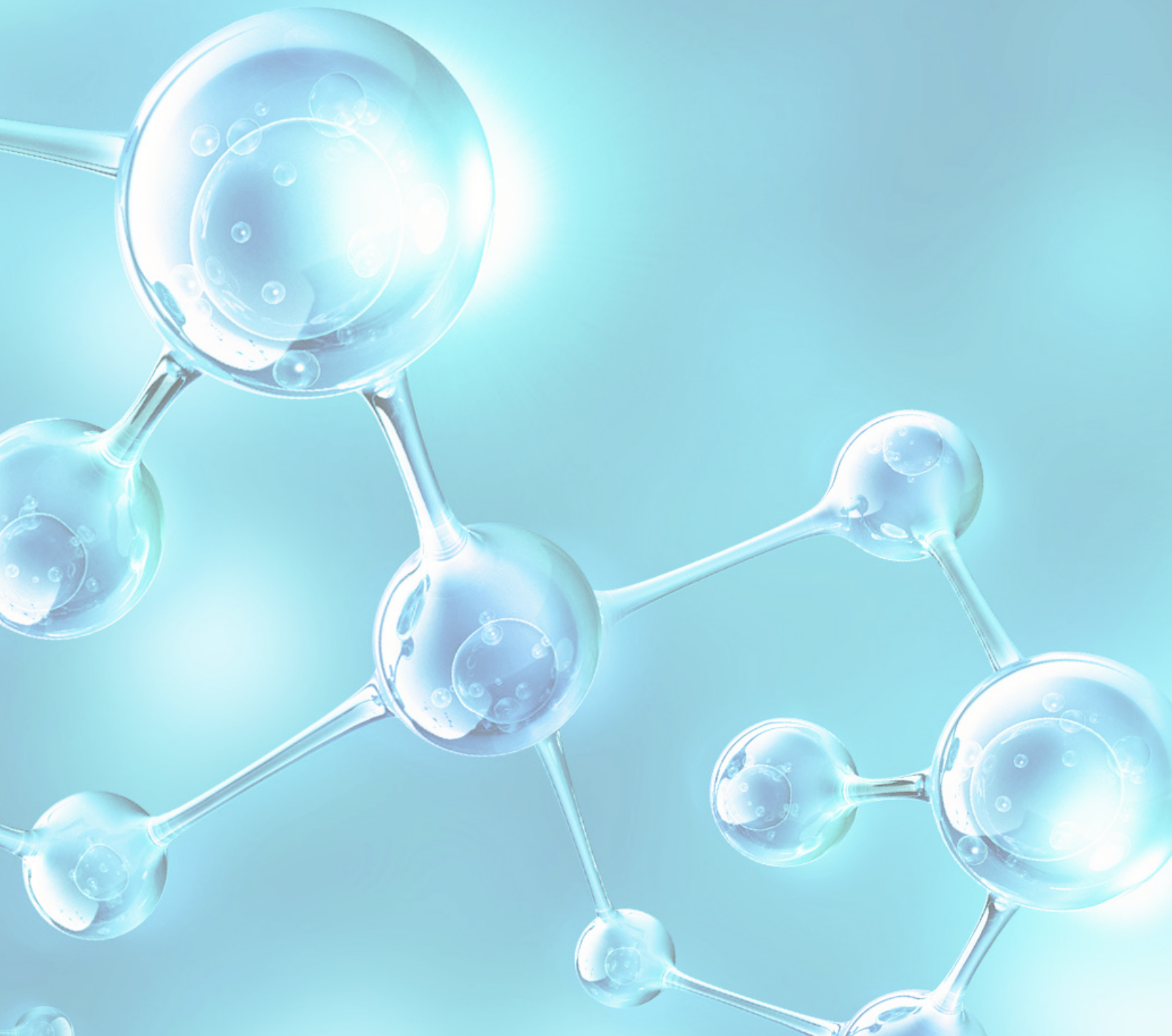




Gel Coats

EMEA



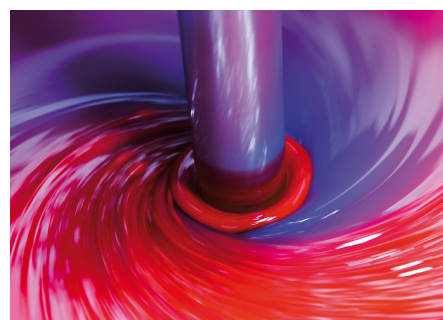
POLYNT COMPOSITES

The World's leading Gel Coat producer

Production Sites



Polynt Composites France S.A.
Polynt Composites Norway
Polynt Composites Poland Sp. z o.o.
Polynt Composites Spain, S.L.U.
Polynt Composites UK Ltd.
Polynt S.p.A.



Polynt Reichhold Group

After the merger on May 2017 the new Polynt-Reichhold Group is a global Company in the Intermediates, Coating and Composite Resins, Thermoset Compounds, Gel-coats and niche Specialties. This combination enhances the Group's leading position as a global vertically integrated specialty chemicals player, with significant global presence in Europe, North America and Asia, a strategy initiated by Polynt with the successful integration of PCCR and CCP in the last years and now further reinforced by Reichhold's global scale, extensive product portfolio and R&D competencies.


Polynt-Reichhold Group is known for its superior quality and impressive range of products and with its excellent distribution network it can provide first-class service to customers whatever their market. Customer Service and Technical Service teams are renowned for their customer focus, offering the best service even after products have left manufacturing.

The Group strives to keep customers satisfied, assisting them in producing premium quality products every time they use its products. Product innovation is important for the Group's business and it's the reason for which it constantly works with customers to find solutions to problems. Introducing new or improved products ensures that Polynt-Reichhold Group continue not only to deliver what the market wants and needs, but also when it is wanted and needed.

What are Gel Coats?

A conventional gel coat is a pigmented, polyester coating that is formulated for use in ambient temperature, open mould processes. The gel coat is applied to the mould surface and becomes an integral part of the finished product. The gel coat provides a durable, cosmetically appealing finish and also protects the part from environmental exposure. These in-mould gel coats protect the mould from abrasion and chemical attack during the remainder of the production process and provide a releasable coating to aid in demoulding operations.

Conventional gel coats are formulated from several components, including the polymer, reactive monomer, pigments, fillers, thixotropic agents, promoters, inhibitors, and specialty additives. The specific materials and amounts significantly affect the performance of the gel coat both in the manufacturing shop and in the part's end application.



Since gel coats are often the exterior coating for composite parts, they provide both the color and texture of the part. They can range from transparent clear surface that allows visibility of subsequent layers, to pigmented coats that can be matched to an infinite array of colours.

As world leaders in gel coats, Polynt Composites has made huge investments in its plants, people and technical knowledge to produce the ultimate range of gel coats, providing perfect finishes for polyester parts, with a range that combines easy application with outstanding performance. The combination of world leading Polycor® and Norpol® brands enables all regions to access and benefit from:

- High performance weathering and water resistance: excellent resistance to both discoloration and hydrolytic attack whilst maintaining high gloss levels
- Colour match service on demand
- Ease of use in application: available in brush and spray grades for all main markets and applications
- Low styrene and styrene-free products are also available
- Highly skilled and experienced field chemists

Polynt Composites gel coats find applications in major industrial sectors such as:

- Transportation (automotive, railway, sandwich panels for refrigerated trucks, etc.)
- Building & Construction (flat and corrugated sheets, pipes, tanks, sanitary, profiles, etc.)
- Marine (leisure and safety boats)
- Energy & Electrical (windmill blades, nacelles, electrical equipment)
- Sport & Leisure (swimming pools)

Furthermore the extensive polymer chemistry knowledge of our R&D and Technical Service departments enables us to develop tailor-made products to meet the specific needs of each individual user.

Advantages of Gel Coated Composites

Composite materials are different from conventional materials in many ways.

Conventional materials, such as aluminium, have set properties and characteristics.

Composites offer versatility in product design and performance. Composites can be created to have many array of desired properties, such as strength, elasticity, flame retardant, corrosion resistant, etc...

An additional benefit is that they can be shaped into a wide range of sizes and complexities, from small intricate parts to large ones. Composites achieve their properties and characteristics only after being successfully processed in the manufacturing facility. Therefore, the material shelf life, storage conditions, and processing temperatures have to be managed and controlled properly.

Composite parts are moulded to the shape design by using a cure tool and a moulding protocol. Most cure tools are called moulds, although not all moulds are curing tools (exception-fiber preforming mold). A cure tool can consist of several elements. At its very minimum, a cure tool consists of a mold skin which mirrors the cured parts about its external surface. Larger molds incorporate bracing to reinforce local areas and framing to distribute the mold weight onto concentrated load points such as casters, which also provide for mobility.

The use of gel coats enables a part to be produced with a tough durable surface bonded to a reinforced layer which facilitates release from the tool surface. This allows for parts to be produced without the need for post painting, saving time and labour costs. Should the need arise, the gel coats can be readily and easily repaired to provide a lasting surface. With carefully selected raw materials and pigments, many different colours and effects can be created to provide aesthetically pleasing finished surfaces and durable, long lasting composite pieces.

Specialty products are available for harsher working environments, e.g. high UV, constant water contact and chemical exposure environments, so please contact our Polynt representatives for further information.

This brochure is intended to provide a comprehensive list of the products and services available from all business sectors in which are active the companies and/or corporations controlled, directly or indirectly, by Specialty Chemicals International Ltd (hereinafter referred to as «Polynt Group»). The information, recommendations, answers and/or opinions contained herein (which must be intended only for explanatory purposes) are aimed to assist customers on the basis of our technical and scientific knowledge as of today, taking into account that our products are intended for sale to industrial and commercial customers. However we require customers to inspect and test our products before use and to satisfy themselves as to contents and suitability for their applications: nothing herein shall constitute or shall be deemed to be any other warranty or a representation, express or implied, including merchantability or fitness for a particular purpose or results to be obtained from the use of such information, nor shall be taken or construed as infringing of any existing patents. Product names in capital letters are registered trademarks of the relevant member of Polynt Reichhold Group. © Polynt S.p.A. - May 2019

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