

Medical Polymers

Performance Acrylics

Colacryl[®]

Medical Component Polymers

> Meeting the need for safe, reliable and practical in-body polymers

A growing global population and increasing life expectancy creates new challenges for the medical sector and means that an increasing number of treatments require the use of biocompatible materials to enhance quality of life.

Using our unique experience in refining market-leading dental polymers, we developed new materials to successfully cement and secure hip, knee and shoulder joints. We became one of the world's first manufacturers of bespoke speciality polymers for the medical sector and have been supplying the market for over fifty years.

> Long-term commitment to delivering innovation for the medical profession

Today we continue our success through our relationships with academics, health professionals and customers to meet the challenging performance demands of advanced biomaterials. Our commitment to innovation provides solutions to the most complex and challenging orthopaedic applications.

Our exclusive experience in the acrylics industry has taught us that our customers can use polymers in many widely differing application areas, each with its own requirements defined by key performance attributes.

We have a long and proven track record of developing innovative solutions for our customers' applications, and our materials provide exceptional advantages for a wide range of surgical devices and techniques, including:

- Arthroplasty
- Cranioplasty
- Kyphoplasty
- Vertebroplasty

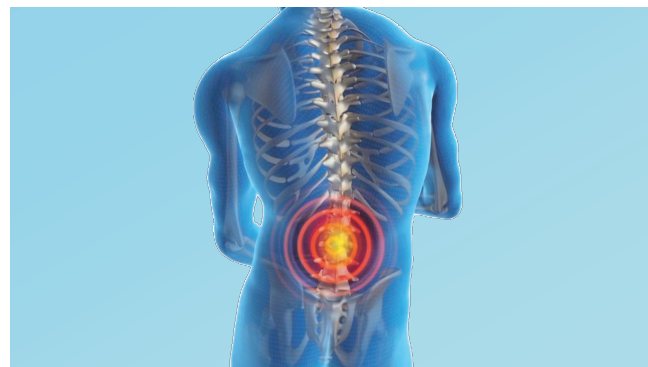
> Unique flexibility and dependable performance

Exclusive knowledge and experience ensures that our high-performance materials continue to drive success for our customers, and our materials have a proven record of delivering safe, reliable and practical results across a wide range of musculoskeletal applications.

To meet these demands and support medical professionals to provide the most effective treatments, we are constantly evolving and improving our range of Colacryl® polymers. Current research interests include:

- Bone cements with defined working characteristics¹
- Bone substitution
- Encapsulation²
- Femoral stem centralisers and spacers
- Porous PMMA²
- Rods and blocks

We have developed our medical range of self-curing Colacryl® products to meet the need for high-strength, radiolucent cements, which offer mechanical performance and low rates of fatigue while maintaining the flexibility of controlled curing times.



> Quality assured in all that we do

As a responsible medical component manufacturer, we are registered to the design standard ISO 9001 and the regulatory standard ISO 13485 and are committed to supporting our customers to meet their obligations under the European Medical Devices Directive.

Close monitoring and control of particle size, chemical composition and molecular weight, combined with product traceability and compliance to the current REACH legislation, are all factors that contribute to the performance success of our polymers.



Contacts

Technical Contact

David McDonald
E: david.mcdonald@lucite.com
T: +44 (0)1325 303906

Sales Contact

Neil Blackburn
E: neil.blackburn@lucite.com
T: +44 (0)7739 860179

Find out more



<http://www.luciteinternational.com/resins>

References

1. US 8741980 B2 (Hardenable two part acrylic composition)
2. Patent pending

Lucite International

Speciality Polymers & Resins Ltd. T: +44 (0)1325 303900
Horndale Avenue www.luciteinternational.com/resins
Newton Aycliffe DL5 6YE
County Durham (UK)

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