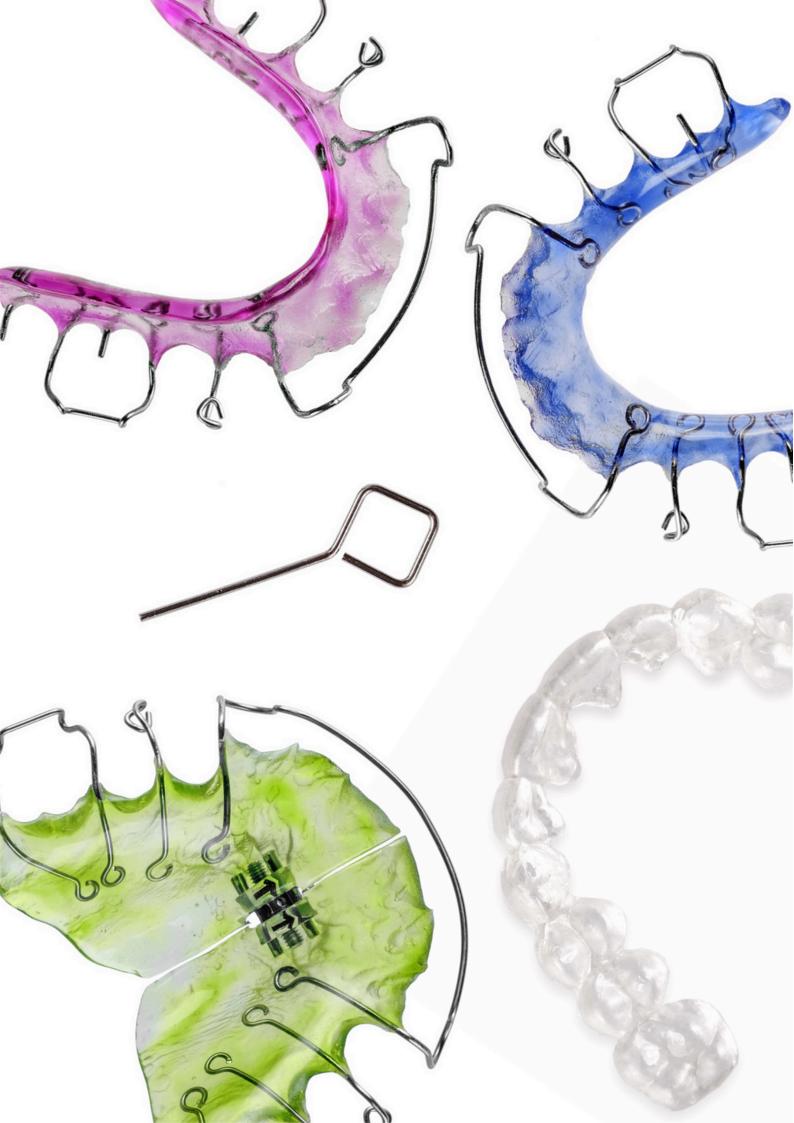


Colacryl® Acrylic Resins

for Dental Applications





High quality acrylic polymers

for the dental industry

For more than eighty years we have established an outstanding reputation for supplying high-quality acrylic polymers to the international dental industry. Today we have a comprehensive range of Colacryl® acrylic polymers, and we are committed to continuously improving our products to meet future requirements.

Using knowledge of the sector, and understanding customers' needs, we continue to lead with products that deliver performance and dependability for our customers.

A growing, ageing population, increasing affluence and changing lifestyles all contribute to the challenges faced by dental practitioners on a daily basis. Using our knowledge and experience, we work with customers to develop pioneering solutions to these challenges.

Our close relationships with the world's leading dental manufacturers of cutting-edge dental prosthetics and orthodontics allow us to continuously innovate.

Mitsubishi Chemical UK's manufacturing and quality systems are certified to the international standards ISO 9001:2015 and ISO 13485:2016.

We have an established and broad range of products that includes:

- Heat cure denture polymers a range of performance characteristics with the flexibility to be fast or slow cured
- Auto-polymerizing polymers for full and partial dentures, repairs and relines with an option for reduced yellowing
- Tooth polymers medium to high molecular weights that can be modified with cross-linked polymers to enhance hardness and stain resistance
- Orthodontic polymers characterised by close control of particle size, free flow and rapid absorption of dental liquid
- Computer-aided dental applications polymers for the growing CAD/CAM blocks and discs market
- Specialist applications polymers for crowns, bridges and denture relining

We know that the challenges of the global dental industry are constantly evolving, and we are dedicated to providing innovative solutions to our customers' needs.



Denture Base

A strong, reliable denture base is essential to support prosthetic teeth. Our range of denture base polymers has been designed to offer a wide range of handling properties without compromising strength or durability.

- **Colacryl**® **D80FC** is our best-selling denture base polymer, featuring fine particle size and high molecular weight. It can be fast or slow cured to create high quality dentures.
- **Colacryl**[®] **PD11SG** is a copolymer which offers faster dough time and longer working time for short curing cycles.
- Colacryl[®] DP300 features a higher particle size which allows longer doughing and working times.

Product Name	Average Particle Size	Residual Peroxide	Dough Time (mins)	Snap Time (mins)	Work Time (mins)	Mixing Ratio Powder/Liquid	Reccommended Liquid
Colacryl® D80FC	50-60µ	0.29 ± 0.04%	20-30	35 max.	15 min.	24g/10ml	
Colacryl [®] PD11SG	55-73µ	0.33 ± 0.06%	08-13	15 max.	45 min.	24g/10ml	Colacryl® TS1547
Colacryl [®] DP300	80-100μ	0.25 ± 0.10%	30-45	50 max.	20 min.	24g/10ml	



Denture Repairs

Our auto-polymerising materials have been designed specifically for full and partial dentures, repairs and relines with a range of curing options. These provide a tough, durable bond with fast mixing times and superb handling qualities.

For best results, and to maximise working times, use with the corresponding $\operatorname{Colacryl}^{\$} \operatorname{TS1504}$ dental liquid.

- Colacryl® D1-120 has a long pour time and high residual peroxide for cold cure denture repairs.
- Colacryl[®] TS2027 produces a high clarity prosthesis, sets after a short curing cycle, and can be used for repairs, relines and additions to existing dentures.
- **Colacryl**® **TS2073** can also be formulated with barbituric acid derivatives and co-catalysts to provide a system with reduced yellowing.

Product Name	Average Particle Size	Residual Peroxide	Pour Time (mins)	Set Time (mins)	Mixing Ratio Powder/Liquid	Reccommended Liquid
Colacryl® D1-120	32-48µ	2.50 ± 0.20%	2-5	16-23	21g/12ml	
Colacryl® TS2027	60-76µ	1.10 ± 0.20%	2-3	14-20	13g/10ml	Colacryl [®] TS1504
Colacryl® TS2073	40-45µ	0.35 ± 0.15%	3-5	20-26	20g/11ml	

Tooth Polymers

Colacryl[®] acrylic polymers are characterised by precisely controlled particle sizes, creating free-flowing microscopic acrylic beads which rapidly absorb dental liquids. They offer excellent impact resistance and outstanding aesthetics, and a range of working and curing times allow for additional flexibility.

- Colacryl[®] D150 is our best-selling tooth polymer, offering a combination of fast cure time with outstanding aesthetics and strength.
- Colacryl[®] TS1890 offers extended dough time with easy mixing properties and low residual peroxide.
- Colacryl[®] TS2198 has an extra-fine particle size which allows faster absorption.

Orthodontic Appliances

With medium to high molecular weights, and low porosity, Colacryl® acrylic polymers allow the manufacture of hard-wearing dental prosthetics with perfect fit.

- Colacryl® TS1672 has been designed specifically for the manufacture of high-quality orthodontic appliances, with excellent slump resistance and liquid absorption.
- Colacryl® TS1794/2 has excellent pigment acceptance, superior clarity, and offers improved pile stability.

Product Name	Average Particle Size	Residual Peroxide	Dough Time (mins)	Snap Time (mins)	Work Time (mins)	Mixing Ratio Powder/Liquid	Reccommended Liquid
Colacryl [®] D150	40-56µ	0.50 ± 0.10%	10-20	25 max.	15 min.	24g/10ml	
Colacryl® TS1890	35-55µ	0.20% max.	18-30	40 max.	20 min.	19g/10ml	Colacryl®TS1503
Colacryl® TS2198	30-46µ	0.26 ± 0.04%	10-20	25 max.	15 min.	24g/10ml	
Colacryl [®] TS1672	55-75µ	0.55 ± 0.10%	n/a	n/a	n/a	'salt and	Colacryl®TS1505
Colacryl® TS1794/2	72-88µ	0.78 ± 0.18%				pepper' technique	Colaci yi 9 15 1505

Speciality Applications

Application	Product Name	Properties	Reccommended Liquid
CAD/CAM	Colacryl [®] D150	Fine, free-flowing bead polymers for easy mixing and short cure cycles	Colacryl [®] TS1503
Denture Reline	Colacryl [®] TS1364/1	For tissue conditioners and temporary cushioning of dentures	Colacryl [®] TS2023
Temporary Crown & Bridge	Colacryl [®] TS2084	For heat-cured restorative crowns	Colacryl [®] TS1502
Tooth Additives	Colacryl [®] TS1352	Cross-linked polymer for increased hardness and	Colacryl [®] TS1503
	Colacryl [®] TS1697	stain resistance	



