

# COPACRYL

The COPACRYL range of products is made up of five acrylic resins (JERSEY, CARBON, GEL and SUPPLE resin), all designed for the production of external orthopaedic devices such as prosthesis sockets, but also various lower or upper limb splints. They can generally be used in any rigid appliance manufactured by lamination.

Resins polymerization occurs at room temperature by addition of our non-CMR hardening powder SIPACRYL. The mixing ratio is maximum 2% to 3% of hardener by weight on the resin.

The lamination can be performed either with Nylglass® or Perlon® type textile reinforcement (JERSEY resin) or with carbon braid (CARBON resin). Natural reinforcements are also compatible.

Demoulding can take place from 10 to 35 minutes after the exothermic peak has passed.

COPACRYL resins were reformulated in 2010 to make them significantly less odorous and less irritating during the implementation phases but also less yellow after polymerization.

## Reactivity

The viscosity and reactivity have been adapted to the working practices of orthopaedic professionals.

These characteristics at 20 °C are summarized in the table below. Please note that the higher the temperature, the shorter the crosslinking time and the higher the exothermic peak.



### Characteristics of the polymerized products

#### Hardness:

- 85 ShD for JERSEY resin
- 85 ShD for CARBON resin
- 85 ShD for GLUE resin
- 85 ShD for GLUE GEL resin
- 65 / 95 ShA for SUPPLE resin (approx. 45 Sh D)

### Characteristics of the liquid products

#### Viscosity at 20 °C in mPa.s:

- 450 approx. for JERSEY resin
- 250 approx. for CARBON resin
- 300 approx. for GLUE resin
- Thixotropic for GLUE GEL resin
- 400 approx. for SUPPLE

#### Quantity of hardener:

- maximum 2 or 3% in weight

	JERSEY	CARBON	GLUE	GLUE GEL	SUPPLE*
Time to reach the exothermic peak (min)	22 to 30	22 to 30	8 to 10	5 to 7	24 to 44
Temperature of the exothermic peak (°C)	80 to 130	80 to 130	80 to 130	80 to 130	30 to 65

SUPPLE resin: (\*) This resin is not to be used alone and must be incorporated into JERSEY or CARBON resin at 10 to 30% to increase the flexibility of the orthopedic device.

## Storage and packaging

The COPACRYL resins and SIPACRYL hardener are guaranteed 18 months if they are stored between 18°C and 25°C in well-sealed drums and away from light and humidity. They can be stored up to 35 °C and down to 10 °C, but for no more than 3 months in total.

	REFERENCE	PACKAGING
COPACRYL JERSEY	CAC J01	0,9 kg
	CAC J05	4,9 kg
	CAC J25	25 kg
COPACRYL CARBON	CAC F01	0,9 kg
	CAC F05	4,9 kg
	CAC F25	25 kg
COPACRYL GLUE	CAC C01	0,9 kg
	CAC C05	4,9 kg
	CAC C25	25 kg
COPACRYL GLUE GEL	CAC G750	0,75 kg
COPACRYL SUPPLE	CAC S01	0,9 kg
	CAC S05	4,9 kg
	CAC S25	25 kg
SIPACRYL HARDENER	SYD-II 101	150 g pack
	SYDO-II 101	150 g pack

## Handling and safety

COPACRYL resins are formulated from methyl methacrylate, and are therefore easily flammable. It is then essential to take this fact into consideration during the materials' handling and storage, as well as to follow the usual precautions related to this type of product.

Regarding the health, safety and hygiene measures for these resins, it is absolutely essential to read and follow our Health & Safety data sheets, as well as the information given on the product labels and on the present technical data sheet.

## Customs codes

COPACRYL RESINS	39069090
SIPACRYL HARDENER	29163200