

CREATIVE & RESPONSIBLE CHEMISTRY

PRODUCT CATALOGUE

April 2025



INNOVATION
at the heart of
polymers chemistry

www.cop-chimie.com

THE CHEMISTRY

sustainable and ethical

COP manufactures, synthesizes and formulates a range of materials designed for polymer transformation in several lines of applications, such as orthopedic.

A PEOPLE FOCUSED

Company

French and independent since 1987,
COP develops innovative tailor-made solutions
and can produce in small quantities
to satisfy every specific need.

Composed of chemical engineers and qualified technicians,
the team provides both advice and service.

Certified ISO 9001 v.2015, COP pursues its commitment to
manufacturing to the highest standards..

INNOVATION as a commitment

COP is involved in an intensive research and development
approach and makes available its laboratory for project development.

One goal : to replace toxic components by less harmful equivalent, following
on our first innovations : RTV skin contact silicone range, water expanded
polyurethane foam range, biocomposite : bio-based epoxy resin BPA free and
flax fibers.

Cutting edge equipment : rheometer, tensile testing machine, viscosimeter,
DMA, rheotech, thermoplastic and silicone 3D printer.

Six scientific publications since 2012 : Chemistry of Polymers...

COP is investing in tomorrow's manufacturing process to reduce production
time and costs and meet customization needs. To this end, COP is developing a
range of printable silicones to provide flexible solutions for 3D printing.

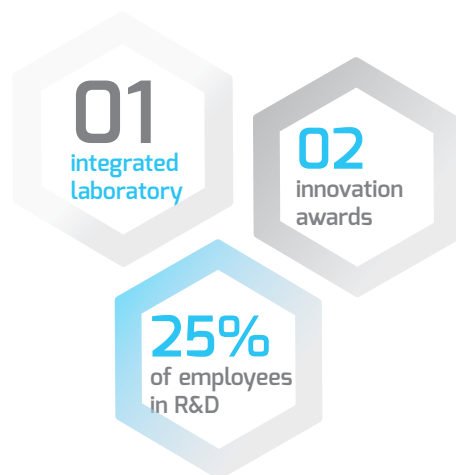


“ VISIONARY and precursor

Because we place people at the heart of our
activities, improving the workplace environment
of our collaborators and partners is our priority.

This philosophy is also reflected by the conception and
the manufacturing of alternative polymers, which are
bio-based and less dangerous for health.

David Denis, CEO
Since 2010



A large range OF POLYMERS

As a leading expert in chemistry, COP offers its own polymer ranges and customized solutions.

Liquid RESINS

Polymerization yields to materials which characteristics (hardness, flexibility, transparency, elasticity...) make them best suited for various casting techniques.

Depending on their utilization, COP polymers provide : comfort, lightness or mechanical performance.



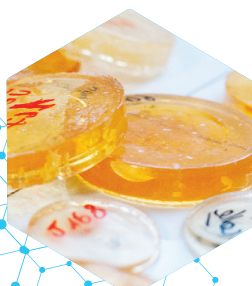
Silicones
gels, elastomers

Acrylics
composites

Epoxy
biocomposite
(BPA free resin)

Polyurethanes
elastomers, foams,
elastic coating

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Complementary PRODUCTS

COP also supplies all accessories needed for polymers processing operations.

- Molding products and accessories,
- Safety equipment,
- Natural and standard composite reinforcements.

ORTHOPEDICS an historical know-how

For 35 years, COP has been manufacturing and developing new materials for the orthopedics professionals to realize customized equipments.

Since 2016, a training center has been created for complex implementation techniques.

ONE PRIORITY :
Improve comfort for people with disabilities.



Towards TOMORROW'S CHEMISTRY

With its innovative approach as testified by its integrated laboratory, COP is committed to design and produce alternative polymer resins, biosourced and most importantly less harmful for the health of its employees and partners.

A member of the Polyméris competitiveness cluster, it also belongs to a network of academic and private experts working for innovation in the chemistry sector in France.

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TRAINING

Offer

There are a lot of materials in the orthopedic field. Technical knowledge and implementation of polymers are essential in order to obtain performant and reliable devices, meeting the needs of each patient.

That is why COP Chimie provides training sessions for orthopedic professionals to discover new materials like COPSIL 3D® printable silicones, our flax fibers ORTHOFLAX® or in order to perfect your knowledge about a manufacturing technic such as custom made silicone liner.

FEW EXAMPLES PROPOSED :

- Silicone 3D printing training with F3DF (module available outside orthopedics for professionals in the industrial, prototyping and luxury sectors)
- Realization of custom made liner with COPSIL silicones
- Realization of socket with the new resins ORTHOPOXY® and ORTHOFLAX® and ECO-BLACK reinforcements.
- Realization of tibialis esthetics with PE SHELLS
- Etc...



This logo indicates that a training session is available in reference to this material.

SAFEPOXY®

Epoxy resins for stratification

Workshop sheet

SAFEPOXY® CONTACT

Mixing ratio	100 / 40
Mix viscosity	1 100 mPa.s
Gel time*	Fast : 15 min Slow : 30 min

*(measurements made on a 70g mixture at 20°C)

COP makes the DIFFERENCE

SAFEPOXY® resins have lower toxicity compared to market standards.

They are formulated without bisphenol A, an endocrine disruptor identified as SVHC (Substance of Very High Concern), able of interfering with our hormones and producing adverse effects even at very low doses.

Beyond being bisphenol-free and having similar mechanical properties to the marketed epoxy resins, SAFEPOXY® resins are partially bio based. COP succeeded in substituting bisphenol for molecules derived from biomass. The renewable carbon source contained in SAFEPOXY® resins comes from the fermentation of sugars and does not represent any health hazard (INSERM 2016 study).

SAFEPOXY® is our range of epoxy resins dedicated to industrial applications. It is formulated without bisphenol A and from renewable raw materials.

It is aimed at composite processors who want to limit their exposure to hazardous substances and their carbon footprint while manufacturing high-performance composites.

The chemical network is formed and the products are used in the same way as a standard system by mixing the resin and the hardener, applying the resin, crosslinking at room temperature and post-curing to reach the maximum hardness and Tg.

PERFORMANCES

SAFEPOXY® offers the performances of epoxy and combines with both standard fibers (carbon, glass ...) and natural basalt (ECO-BLACK) or linen (ORTHOFLAX®) reinforcements that we offer.

- Transparent products
- High wetting power
- High mechanical tensile and flexural strengths
- Sandable after 16 hours at room temperature
- UV resistant

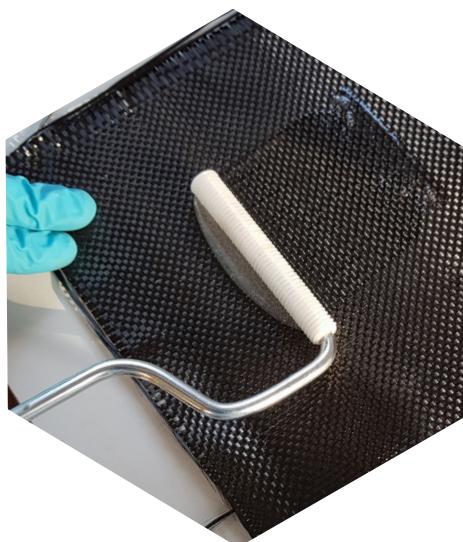
The different SAFEPOXY® systems reach a Tg close to 80 ° C after post-curing.

We offer a full range of resins to meet different industries' needs.

For laminating

- SAFEPOXY® Contact: contact laminating systems

Laminating systems are available in Slow and Fast reactivities depending on the size of the pieces to be laminated.



► COMPOSITE RESINS

SAFEPOXY®

Epoxy resins for repair and finishing



Workshop sheet

SAFEPOXY® SEALANT

Mixing ratio	100 / 40
Gel time*	15 min
Hardness	85 Shore D

SAFEPOXY® GAP FILLER

Mix ratio	100 / 40
Gel time*	15 min
Hardness	85 Shore D

*(measurements made on a 70g mixture at 20°C)



For repair

■ **SAFEPOXY® Sealant:** consistent paste for repairing or shape refilling

For surface finishing

■ **SAFEPOXY® Gap filler:** smoothing and filling coating

RESPECT FOR THE ENVIRONNEMENT

SAFEPOXY® resins are formulated with more than 30% bio-sourced material.

We offer small pack sizes to fit with our customers productions.

NAMES		PACKAGING	REFERENCES
SAFEPOXY CONTACT	RESIN	1 kg	SPC R01
		2,5 kg	SPC R02
		5 kg	SPC R03
	HARDENER SLOW	400 g	SPC DS01
		1 kg	SPC DS02
		2 x 1 kg	SPC DS03
	HARDENER FAST	400 g	SPC DF01
		1 kg	SPC DF02
		2 x 1 kg	SPC DF03
SAFEPOXY GAP FILLER	RESIN	1 kg	SPE R01
		2,5 kg	SPE R02
		5 kg (pot)	SPE R03
	HARDENER	400 g	SPE D01
		1 kg	SPE D02
		2 x 1 kg	SPE D03
SAFEPOXY MASTIC	RESIN + FILLER	1 kg + filler	SPM RC01

ORTHOPOXY®

Fast, Slow and Clear



Workshop sheet

ORTHOPOXY® FAST

Mix viscosity at 20°C	450 mPa.s
Resin / Hardener	100 / 40
Gel time*	30 min
Gel time in thin layer	1 h 30
Post curing at 100°C	1 h
Hardness	± 85 Shore D

ORTHOPOXY® SLOW

Mix viscosity at 20°C	450 mPa.s
Resin / Hardener	100 / 40
Gel time*	2 h
Gel time in thin layer	5 h 30
Post curing at 100°C	1 h
Hardness	± 85 Shore D

ORTHOPOXY® CLEAR

Mix viscosity at 20°C	500 mPa.s
Resin / Hardener	100 / 40
Gel time*	35 min
Gel time in thin layer	3 h 30
Post curing at 100°C	1 h
Hardness	± 85 Shore D

*(measurements made on a 70g mixture at 20°C)

New generation of bio-based epoxy resins, BPA free, patented and especially developed for orthopedic equipment.

ORTHOPOXY® range is composed of three versions :

- « FAST » for the realization of prosthetic sockets
- « SLOW » for the realization of orthosis,
- « CLEAR » for the faster realization of aspect parts lightweight and having excellent mechanical and thermal properties. We recommend using the CLEAR version for devices in contact with water or for patients subject to excessive sweating.

These resins have been designed to impregnate our flax fibers (ORTHOFLAX®) and Basalt fibers (ECO-BLACK) but also all the other fibers used in the orthopedic field (CARBON, GLASS, PERLON®, NYLGLASS®, etc.).

- **Comfort at work** : Odorless, Non flammable
- **Performance** : More rigid and more resistant, High compatibility with fibers and easy to impregnate
- **Respect of the environment** : *Bio-based resins*
 - 45% for the FAST version
 - 45% for the SLOW version
 - 50% for the CLEAR version

NAMES		PACKAGING	REFERENCES
ORTHOPOXY FAST	RESIN	1 kg	EPOX-F R01
		2,5 kg	EPOX-F R02
		5 kg	EPOX-F R03
	HARDENER	400 g	EPOX-F D01
		1 kg	EPOX-F D02
		2 x 1 kg	EPOX-F D03
ORTHOPOXY SLOW	RESIN	1 kg	EPOX-S R01
		2,5 kg	EPOX-S R02
		5 kg	EPOX-S R03
	HARDENER	400 g	EPOX-S D01
		1 kg	EPOX-S D02
		2 x 1 kg	EPOX-S D03
ORTHOPOXY CLEAR	RESIN	1 kg	EPOX-C R01
		2,5 kg	EPOX-C R02
		5 kg	EPOX-C R03
	HARDENER	400 g	EPOX-C D01,
		1 kg	EPOX-C D02
		2 x 1 kg	EPOX-C D03



SOCKET IN ORTHOPOXY® AND REINFORCEMENT ORTHOFLAX

- ACRYLIC

LAMINATING RESINS

COPACRYL

Jersey, carbon, supple, glue, glue gel

Hardener : SIPACRYL

Workshop sheet

JERSEY RESIN

Viscosity resin	± 450 mPa.s
Resin/Hardener	100/2 to 3
Exothermic peak time*	25 min
Demolding time	± 35 min
Hardness	± 85 Shore D

CARBON RESIN

Viscosity resin	± 250 mPa.s
Resin/Hardener	100/2 to 3
Exothermic peak time*	25 min
Demolding time	± 35 min
Hardness	± 85 Shore D

GLUE RESIN

Viscosity	± 300 mPa.s
Resin/Hardener	100/2 to 3
Exothermic peak time*	8 min
Demolding time	12 to 15 min
Hardness	± 85 Shore D

GEL RESIN

Viscosity	Thixotropic
Resin/Hardener	100/2 to 3
Exothermic peak time*	6 min
Demolding time	12 to 15 min
Hardness	± 85 Shore D

SUPPLE RESIN

To mix with Jersey /Carbon resins	(10 to 30 %)
Viscosity	± 400 mPa.s
Resin/Hardener	100/2 to 3
Exothermic peak time*	35 min
Demolding time	35 to 55 min
Hardness	65 to 95 Shore A

* measurements made on a mixture at 20°C



SOCKET IN COPACRYL CARBON RESIN AND CARBON BRAID

COPACRYL very fluid, quick working time and low odor. Available in Jersey, Carbon, Supple, Glue and Glue-Gel versions.

- Good mechanical properties
- Very good skin tolerance
- Thermoformable after polymerization
(within the limit of elasticity of the fabric used)

New Sipacryl hardener equivalent to the old reference in 2 to 3% dosage, non-CMR.

■ COPACRYL RANGE

COPACRYL RESIN JERSEY	sockets reinforced with jersey braids
COPACRYL RESIN CARBON	sockets reinforced with carbon fiber
COPACRYL RESIN SUPPLE	flexibilisation of certain devices (hip socket) in combination with Copacryl Carbon or Jersey
COPACRYL RESIN GLUE	liquid and gel

APPLICATIONS

Can be used with our standard fabrics: **PERLON®**, **NYLON®**, **NYLGLASS®**, **STRETCHNYLGLASS®**, **100% GLASS**.

Can be used with our natural reinforcement **ORTHOFLAX®** and **ECO-BLACK**.

Prosthetic & Orthotics : For lamination of all types of sockets and other splinting devices.

NAMES	PACKAGING	REFERENCES
COPACRYL JERSEY	900 g	CAC J01
	4.9 kg	CAC J05
	25 kg	CAC J25
COPACRYL CARBON	900 g	CAC F01
	4.9 kg	CAC F05
	25 kg	CAC F25
COPACRYL GLUE	900 g	CAC C01
	4.9 kg	CAC C05
	25 kg	CAC C25
COPACRYL GLUE GEL	750 g box	CAC G750
COPACRYL SUPPLE	900 g	CAC S01
	4.9 kg	CAC S05
	25 kg	CAC S25
SIPACRYL HARDENER NON-CMR	150g in bag	SYD-II 101
	150g in pot	SYDO-II 101

- POLYURETHANE

> HARD FOAMS

FORMOUSSE 700, 450, 300, 200

Hard foams more or less expanded

HARDENER MD*

Workshop sheet**FORMOUSSE 700**

Expansion start time at 20°C	1 min
End of expansion	2 min
Removal from mould	20 in
Expansion	± 1.4
Density	± 700 g/L
Resin/Hardener	100/100
Hardness	± 70 Shore D

FORMOUSSE 450

Expansion start time at 20°C	1 min
End of expansion	2 min
Removal from mould	10 min
Expansion	± 2.2
Density	± 450 g/L
Resin/Hardener	100/100
Hardness	± 55 Shore D

FORMOUSSE 300

Expansion start time at 20°C	1 min
End of expansion	2 min 20 sec
Removal from mould	10 min
Expansion	± 4.3
Density	± 230 g/L
Resin/Hardener	100/100
Hardness	30 Shore D

FORMOUSSE 200

Expansion start time at 20°C	40 sec
End of expansion	2 min 10 sec
Removal from mould	10 min
Expansion	± 5.9
Density	± 170 g/L
Resin/Hardener	100/100
Hardness	25 Shore D

Range of hard foams more or less expanded (1.5 to 6.5 times), two-component.

All the **FORMOUSSE** foams can be screwed, nailed, stapled and can be worked as wood.

APPLICATIONS IN PROSTHETICS AND ORTHOTICS

FORMOUSSE 200 AND 300 perfectly grip onto acrylic sockets. Depending on its density **FORMOUSSE** foams can be used in orthosis or sockets as a reinforcement in highly stressed areas.

APPLICATIONS IN ORTHOPAEDIC FOOTWEAR

FORMOUSSE 700 and **450** can be used to fill plaster casts. Before filling the cast, we advice to apply either a **LATEX LIQUID** type insulator and then a **RELEASING AGENT Z400** on the inside, or directly a releasing agent such as **DEMOULANT CIRE**.

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NAMES	PACKAGING	REFERENCES
FORMOUSSE 700	2 kg	FRB 702
	5 kg	FRB 705
FORMOUSSE 450	2 kg	FRB 402
	5 kg	FRB 405
FORMOUSSE 300	2 kg	FRB 302
	5 kg	FRB 305
FORMOUSSE 200	2 kg	FRB 202
	5 kg	FRB 205
HARDENER MD*	2 kg	DMD 002
	5 kg	DMD 005

* As of August 24, 2023, proper training is required prior to any industrial or professional use.

**SHAPES IN FORMOUSSE 450**

> HARD FOAMS

ORTHOLEGERE 60

Hard foam, highly expanded

HARDENER MD*

Workshop sheet

Expansion start time at 20°C	40 s
End of expansion	2 min
Removal from mould	20 min
Expansion	11.1
Density	90 g/L
Resin/Hardener	100/100
Hardness	40 Shore A



POSITIVE CORSET IN ORTHOLEGERE 60

Hard foam highly expanded (12,5 times), two-component. In free expansion or slightly compressed, **ORTHOLÉGERE** is designed to fill hollow volumes. This foam can tolerate thermoforming up to 200°C.

Compressed, **ORTHOLÉGERE 60** can be used for milling blocks of different density (from 65 to 115 g/l) depending the level of compression.

APPLICATIONS IN PROSTHETICS AND ORTHOTICS

ORTHOLÉGERE foam can be used to fill seat- corset buttress or to replace plaster for the realisation of positive seat-corset or orthosis for lower limb.

NAME	PACKAGING	REFERENCES
ORTHOLEGERE 60 RESIN	2 kg	ORT R12
	5 kg	ORT R15
HARDENER MD*	2 kg	DMD 002
	5 kg	DMD 005

* As of August 24, 2023, PROPER TRAINING IS REQUIRED PRIOR TO ANY INDUSTRIAL OR PROFESSIONAL USE.

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> HARD ELASTOMER

RESIDUR

Hard elastomer

HARDENER MD*

Workshop sheet

Mixing time	20 / 25 s
Gel time	1 min 30 s
Demolding time	15 min
Complete hardening time	4 h
Density	1 030 g/L
Resin/Hardener	100/45 to 100/55
Hardness	60 to 70 Shore D



SHAPE EXTENSION IN RESIDUR

Two components hard elastomer unfilled which provides a compact material without bubbles, rigid and hard, which can be flexible depending on the ratio mix used (100/45 : slightly flexible; 100/50 : very slightly flexible ; 100/55 : rigid).

RESIDUR can be screwed, nailed, stapled and can be worked as wood. Slight shrinkage after polymerization : 1,2%.

RESIDUR can also be used as a rigid glue on a lot of rigid materials such as wood (dry).

APPLICATIONS IN ORTHOPAEDIC FOOTWEAR

Used to form the extremity of shapes in FORMOUSSE. After complete cooling, **RESIDUR** is resistant to compression during thermoforming.

NAMES	PACKAGING	REFERENCES
RESIDUR RESIN (BLUE)	2 kg	REDB R02
	5 kg	REDB R05
HARDENER MD*	2 kg	DMD 002
	5 kg	DMD 005

* As of August 24, 2023, PROPER TRAINING IS REQUIRED PRIOR TO ANY INDUSTRIAL OR PROFESSIONAL USE.

SIPMOUSSE SUPPLE

Elastic, expanded foam

HARDENER MS*



Workshop sheet

SIPMOUSSE 50 LIGHT

Expansion start time at 20°C	30 sec
End of expansion	± 2 min
Removal from mold	1 h
Expansion	18
Density	5 g/L
Resin/Hardener	100/80
Hardness	35 Shore 00

SIPMOUSSE 80

Expansion start time at 20°C	35 sec
End of expansion	± 3 min
Removal from mold	45 mn
Expansion	± 12
Density	80 g/L
Resin/Hardener	100/50
Hardness	5 Shore 00

SIPMOUSSE 70/30

Expansion start time at 20°C	35 sec
End of expansion	± 2 min 30
Removal from mold	45 mn
Expansion	± 12
Density	80 g/L
Resin/Hardener	100/56
Hardness	20 Shore 00

SIPMOUSSE 30/70

Expansion start time at 20°C	30 sec.
End of expansion	± 3 min
Removal from mold	45 min
Expansion	± 12
Density	80 g/L
Resin/Hardener	100/60
Hardness	40 Shore 00

Supple and nervous foams, 2 components. Several consistencies are available. After polymerization, **SIPMOUSSE SUPPLE** foams can be easily worked on a router to give a nice surface finish. These foams can be colored and recovered with our elastic and resistant coating : **ERGOPEAU** or **ERGOFLEX**.

APPLICATIONS IN PROSTHETICS AND ORTHOTICS

These foams are used primarily to realize injected cushion seats, in cutom seats and cosmetics.

■ SIPMOUSSE SUPPLE

SIPMOUSSE SUPPLE 50 light	the most expanded
SIPMOUSSE SUPPLE 80 supple	the most supple
SIPMOUSSE SUPPLE 70/30 medium	intermediary
SIPMOUSSE SUPPLE 30/70 firme	the firmer

NAMES	PACKAGING	REFERENCES
SIPMOUSSE SUPPLE 50 LIGHT RESIN	2 kg	MSH R02
	5 kg	MSH R05
SIPMOUSSE SUPPLE 80 SUPPLE RESIN	2 kg	MSP R02
	5 kg	MSP R05
SIPMOUSSE SUPPLE 70/30 MEDIUM RESIN	2 kg	MSL R02
	5 kg	MSL R05
SIPMOUSSE SUPPLE 30/70 FIRME RESIN	2 kg	MST R02
	5 kg	MST R05
HARDENER MS*	2 kg	DMS 002
	5 kg	DMS 005

* AS OF AUGUST 24, 2023, PROPER TRAINING IS REQUIRED PRIOR TO ANY INDUSTRIAL OR PROFESSIONAL USE

> SUPPLE FOAMS

SIPMOUSSE ESTHETIC

Elastic, firm and lightweight foam

HARDENER MS*

**Workshop sheet**

Expansion start time at 20°C	>	1 min
End of expansion	>	3 min 30 sec
Removal from mold	>	1 h
Density	>	± 80 g/L
Resin/Hardener	>	100/80
Hardness	>	± 50 Shore 00

Supple and nervous foam, two-component which offer an homogenous material, consistent which can support high pressure without totally crushing.

This foam can be colored and recovered by our elastic and resistant coating : **ERGOFLEX**.

APPLICATIONS IN PROSTHETICS AND ORTHOTICS

These foams have been especially designed for the realization of tibialis cosmetics with PE shells.

NAMES	PACKAGING	REFERENCES
SIPMOUSSE ESTHETIC RESIN	2 kg	MSC R02
	5 kg	MSC R05
HARDENER MS*	2 kg	DMS 002
	5 kg	DMS 005

* AS OF AUGUST 24, 2023, PROPER TRAINING IS REQUIRED PRIOR TO ANY INDUSTRIAL OR PROFESSIONAL USE.

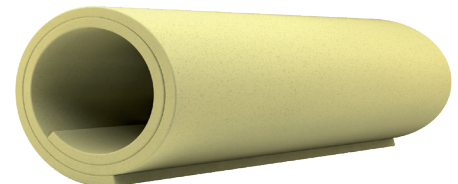
> SHEETS

FOAMS IN SHEET

SIPMOUSSE FINISHING FOAM

Soft foam very elastic in sheets. Use for the recovery of injected custom seats or pressure beds. This foam provides very smooth appearance before the application of our **ERGOPEAU** coating.

NAME	PACKAGING	REFERENCE
SIPMOUSSE FINITION	202 x 180 x 0.5 cm	MSP P05



ERGOPEAU & ERGOFLEX

Elastic and waterproof coating



Workshop sheet

Spray settings

- 1st layer: round spray, important painting flow
- 2nd layer: smaller spray, horizontal moves, reduced painting flow
- 3rd layer (finishing): large spray, horizontal moves, important painting flow

Gun pressure

- 1st layer : between 5 et 7 bars
- 2nd layer : 3 bars
- 3rd layer : 5 bars

Drying time at 20° C

ERGOPEAU: 24 h / ERGOFLEX: 1 h

Coloring agents

Do not exceed 2% in weight of the painting (ref. CPU)

Adhesion primer

PU supple foam > without primer

Primer required for closed cells foams rimer

- Plastazote foams type> with primer

ERGOPEAU and **ERGOFLEX** are ready-to-use mono-component polyurethane coatings which are very fluid, opaque and which can be colored with our PU color pastes.

These coatings offer a resistant but supple skin, very elastic and waterproof.

ERGOPEAU offers a smooth and glossy skin. It does not shrink after polymerization and 24 hours of drying are needed before manipulating. This coating is adapted to cover beds, seat-corset, for a smooth finish. Before painting, we advise you to cover your support with our finishing foam SIPMOUSSE FINITION in sheet (6mm).

ERGOFLEX offers a matt and stretch skin. Only 1 hour of drying is needed before manipulating and it shrinks a little bit after polymerization which permits to smooth the support (supple). This coating has been especially designed for the finishing and the covering of tibialis or femoral cosmetics.

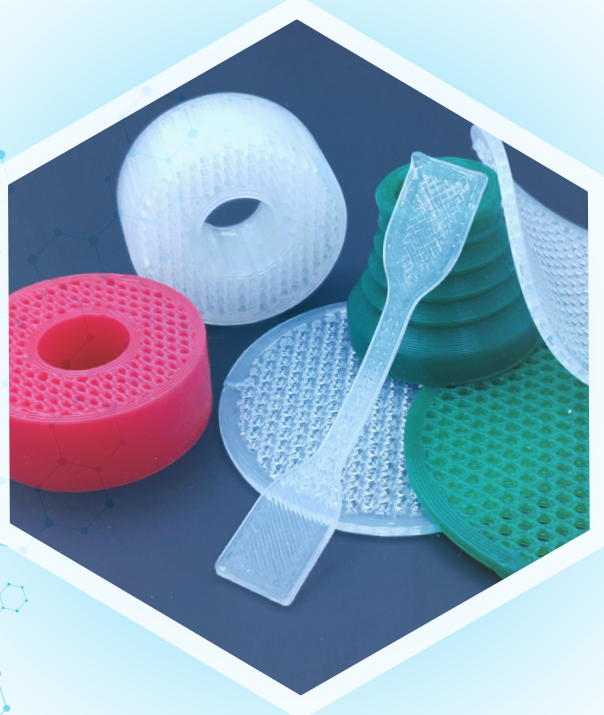
APPLICATIONS

Protection, finishing, decoration and waterproofing of PU elastomers, rigid or supple.

NAMES	PACKAGING	REFERENCES
ERGOPEAU COATING	1 L	EGE3 R01
	5 L	EGE3 R05
	25 L	EGE3 R25
	57 L	EGE3 R57
ERGOFLEX COATING	1 L	EFX R01
	5 L	EFX R05
	25 L	EFX R25
	57 L	EFX R57
ERGOPEAU PRIMER	1 L	PPE R01
	5 L	PPE R05
	25 L	PPE R25
	61 L	PPE R61



This coating must be used with a vapor aspiration system. To choose the right aspiration system, please contact us.



SILICONE FOR 3D PRINTING

The 3D printing is at the heart of many research themes. The possibilities it offers in terms of design, aesthetics, speed of conception, functionalisation and lightening of structures make it an essential tool for many industries, and in particular for external orthopaedics, which is evolving in the field of personalisation.

In collaboration with F3DF, COP Chimie offers you a training on silicone 3D printing.

► ELASTOMERS

COPSIL 3D®

Printed silicone elastomers

**Workshop sheet****COPSIL 3D® 0550**

Resin/Hardener	1:5
Hardness	05 Shore A
Working time in the mixer*	50 min

COPSIL 3D® 1050

Resin/Hardener	1:5
Hardness	10 Shore A
Working time in the mixer*	50 min

COPSIL 3D® 2550

Resin/Hardener	1:5
Hardness	25 Shore A
Working time in the mixer*	50 min

COPSIL 3D® 4050

Resin/Hardener	1:1
Hardness	40 Shore A
Working time in the mixer*	50 min

* measurements made at 20°C

The **COPSIL 3D®** range is intended for the manufacture of flexible parts of complex design or manufactured in small series (prototyping). The printed silicone elastomers have mechanical characteristics at least equivalent to those of parts made by moulding or injection.

COPSIL 3D® silicone elastomers consist of a two-component system (resin and hardener) mixed in 1:5 parts and 1:1 (**COPSIL 3D 4050**). They are cross-linked at room temperature by polyaddition reaction with a platinum-based catalyst. They are certified for skin contact according to ISO 10993-5.

NAMES	PACKAGING	REFERENCES
COPSIL 3D 0550	KIT 6 x 50 ml	3D0550 S055
	KIT 6 x 850 g	3D0550 C850
COPSIL 3D 1050	KIT 6 x 50 ml	3D1050 S055
	KIT 6 x 850 g	3D1050 C850
COPSIL 3D 2550	KIT 6 x 50 ml	3D2550 S055
	KIT 6 x 850 g	3D2550 C850
COPSIL 3D 4050	KIT 2 x 50 ml	3D4050 S055
	KIT 2 x 850 g	3D4050 C850



COPSIL 3D® ADD-GEL

Silicone printing support



Specificity

COPSIL 3D® ADD-GEL is a support gel for RTV-2 COPSIL 3D® silicone elastomers which benefits are:

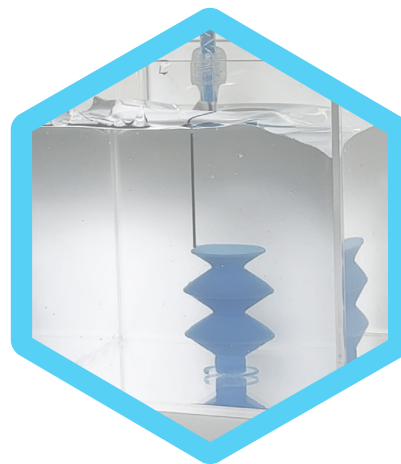
- Support complex structures,
- Improve final aspect of printed parts by liquid deposition (smoothing),
- Ready-to-use,
- Transparent (useful for supervising your printing in progress),
- Chemically inert with silicone,
- Water rinseable,
- No impact on mechanical properties of printed silicones,
- Neutral pH,
- No hazard pictogram.

COPSIL 3D® ADD-GEL is a support for RTV-2 liquid silicone printing, allowing the realization of complex parts with important bridges overhangs.

The extrusion of liquid silicone takes place within the gel that supports the printed part. It is ready to use, non-toxic and sinkable.

Its specific consistency allows to smooth the layers of silicone. ADD-GEL is inert and does not impact the mechanical properties of the printed material.

NAME	PACKAGING	REFERENCE
COPSIL 3D ADD-GEL	1.1 kg pot	ADD-GEL 001
	5 kg bucket	ADD-GEL 005



► GELS

COPSIL GEL 00 & 25

Soft and elastic gels, with fast or slow return

Workshop sheet

COPSIL GEL-00

Working time at 20 °C	1 h 40 min
Demolding time at 20°C	6 h
Final hardening time	24 h
Resin/Hardener	1:1
Hardness	0 Shore 00

COPSIL GEL-25

Working time at 20 °C	1 h 30 min
Demolding time at 20°C	3 h
Final hardening time	24 h
Resin/Hardener	1:1
Hardness	25 Shore 00

The silicone gels **COPSIL GEL** are two-component systems (resin and hardener) which are very fluid. They can be mixed in equal parts and cure at room temperature by polyaddition reaction with a platinum catalyst which can be accelerated with heat.

The **COPSIL GEL-00** is a translucent, compact and very supple material. Its hardness is non measurable (Shore00) because it is too soft. Regarding its viscoelasticity it is classified as «slow return» silicone gel.

The **COPSIL GEL-25** hardness is 25 Shore 00. It has a sticky feel. It can be used in contact with skin as it respects the ISO 10993-5 standard.

APPLICATIONS

COPSIL GEL-00 & 25 are primarily dedicated to anti-bedsore sheets.

NAMES	PACKAGING	REFERENCES
COPSIL GEL-00	KIT 1 KG (500 g + 500 g)	GLCS-00 01
	KIT 10 KG (5 kg + 5 kg)	GLCS-00 10
	KIT 50 KG (25 kg + 25 kg)	GLCS-00 50
COPSIL GEL-25	KIT 1 KG (500 g + 500 g)	GLC-25 01
	KIT 10 KG (5 kg + 5 kg)	GLC-25 10
	CARTRIDGE (2 x 200 ml)	GLC-25 C400

COPSIL DUPLICATOR

Impression silicone



Workshop sheet:

Working time at 20 °C	3 min
Demolding time at 20°C	10 min
Final hardening time	5 min
Resin/Hardener	1:1
Hardness	30 Shore A

The **COPSIL DUPLICATOR** is a two-component silicone system. Mixed in equal parts and cured at room temperature by polyaddition reaction with a platinum catalyst which can be speeded with heat. After polymerization the material is dry, translucent, compact, very resistant and its hardness is 30 Shore A.

COPSIL DUPLICATOR can be used in contact with the skin as it complies with the ISO 10993-5 standard.

APPLICATIONS

The **COPSIL DUPLICATOR** is mainly used to take impression directly on the skin.

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NAME	PACKAGING	REFERENCES
COPSIL DUPLICATOR	KIT 1 KG (500 g + 500 g)	DUP 01
	KIT 10 KG (5 kg + 5 kg)	DUP 10

CAST TAKING IN DUPLICATOR AND PLASTER DUPLICATION

► ELASTOMERS

COPSIL

Silicone elastomer

**Workshop sheet:**

	COPSIL 2		COPSIL 3	COPSIL 5		COPSIL 12	
	normal	fast	fast	normal	fast	normal	fast
Working time at 20 °C	50 min	20 min	25 min	1 h	25 min	1 h	30 min
Demolding time at 20°C	5 h	2 h	45 min	3 h	45 min	2 h	1 h 15
Elongation at break	480 %		870 %	800 %		950 %	
Mix viscosity	7 000 mPa.s	5 000 mPa.s	6 000 mPa.s	5 500 mPa.s		11 500 mPa.s	12 500 mPa.s
Hardness	2 Shore A		3 Shore A	5 Shore A		12 Shore A	

Specificity

- > The whole COPSIL range can be used in contact with skin as it respects the ISO 10993-5 standard.
- > Density ± 1
- > Resin/Hardener 1:1

Polyaddition silicone range, translucent, two-component and skin contact. **COPSIL** range is composed of silicone more or less fluid which have very good mechanical properties.

Sold in liquid ready to mix with a 1/1 ratio. They are also available in cartridges and can be cast with a Silijet machine.

APPLICATIONS

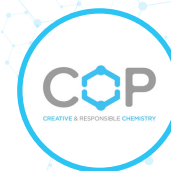
Designed to make silicone liners, reel cushion, patellar rings, etc.

**CUSTOM LINER IN COPSIL**

NAMES	PACKAGING	REFERENCES
COPSIL 2 NORMAL	KIT 1 KG (500 g + 500 g)	T-02SN 01
	KIT 10 KG (5 kg + 5 kg)	T-02SN 10
	KIT 50 KG (25 kg + 25 kg)	T-02SN 50
COPSIL 2 FAST	KIT 1 KG (500 g + 500 g)	T-02SR 01
	KIT 10 KG (5 kg + 5 kg)	T-02SR 10
	KIT 50 KG (25 kg + 25 kg)	T-02SR 50
	CARTRIDGE (2 x 200 ml)	T-02SR C400
COPSIL 3 FAST	KIT 1 KG (500 g + 500 g)	T-03TR 01
	KIT 10 KG (5 kg + 5 kg)	T-03TR 10
	KIT 50 KG (25 kg + 25 kg)	T-03TR 50
	CARTRIDGE (2 x 200 ml)	T-03TR C400
COPSIL 5 NORMAL	KIT 1 KG (500 g + 500 g)	T-05TN 01
	KIT 10 KG (5 kg + 5 kg)	T-05TN 10
	KIT 50 KG (25 kg + 25 kg)	T-05TN 50
COPSIL 5 FAST	KIT 1 KG (500 g + 500 g)	T-05TR 01
	KIT 10 KG (5 kg + 5 kg)	T-05TR 10
	KIT 50 KG (25 kg + 25 kg)	T-05TR 50
	CARTRIDGE (2 x 200 ml)	T-05TR C400
COPSIL 12 NORMAL	KIT 1 KG (500 g + 500 g)	T-12TN 01
	KIT 10 KG (5 kg + 5 kg)	T-12TN 10
	KIT 50 KG (25 kg + 25 kg)	T-12TN 50
COPSIL 12 FAST	KIT 1 KG (500 g + 500 g)	T-12TR 01
	KIT 10 KG (5 kg + 5 kg)	T-12TR 10
	KIT 50 KG (25 kg + 25 kg)	T-12TR 50
	CARTRIDGE (2 x 200 ml)	T-12TR C400

COPSIL

Silicone elastomer

**Workshop sheet:**

	COPSIL 16	COPSIL 20	COPSIL 40	
	fast	fast	normal	fast
Working time at 20 °C	30 min	25 min	20 min	10 min
Demolding time at 20°C	50 min	2 h	12 h	3 h
Elongation at break	500 %	900 %	250 %	300 %
Mix viscosity	6 000 mPa.s	6 000 mPa.s	45 000mPa.s	55 000 mPa.s
Hardness	16 Shore A	20 Shore A	40 Shore A	

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NAMES	PACKAGING	REFERENCES
COPSIL 16 FAST	KIT 1 KG (500 g + 500 g)	T-16SR 01
	KIT 10 KG (5 kg + 5 kg)	T-16SR 10
	KIT 50 KG (25 kg + 25 kg)	T-16SR 50
	CARTRIDGE (2 x 200 ml)	T-16SR C400
COPSIL 20 FAST	KIT 1 KG (500 g + 500 g)	T-20TR 01
	KIT 10 KG (5 kg + 5 kg)	T-20TR 10
	KIT 50 KG (25 kg + 25 kg)	T-20TR 50
	CARTRIDGE (2 x 200 ml)	T-20TR C400
COPSIL 40 NORMAL	KIT 1 KG (500 g + 500 g)	T-40TN 01
	KIT 10 KG (5 kg + 5 kg)	T-40TN 10
	KIT 50 KG (25 kg + 25 kg)	T-40TN 50
COPSIL 40 FAST	KIT 1 KG (500 g + 500 g)	T-40TR 01
	KIT 10 KG (5 kg + 5 kg)	T-40TR 10
	KIT 50 KG (25 kg + 25 kg)	T-40TR 50
	CARTRIDGE (2 x 200 ml)	T-40TR C400

> ELASTOMERS

COPSIL SOCKET

Silicone elastomer

**Workshop sheet:**

Working time at 20 °C	30 min
Demolding time at 20°C	1 h
Density	1.1
Resin/Hardener	1:1
Hardness	38 Shore A

Polyaddition silicone, fluid, translucent, two-component and easy to demold. **COPSIL SOCKET** has an extremely high viscosity. This product is used to make a soft socket (in orthopedics), molds that reproduce details perfectly, and resistant parts. Sold in liquid ready to mix with a 1/1 ratio.

APPLICATIONS **Prosthetics**

Designed to make soft sockets, molds or for prototyping.

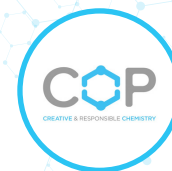


NAME	PACKAGING	REFERENCES
COPSIL SOCKET	KIT 1 KG (500 g + 500 g)	CSS 01
	KIT 10 KG (5 kg + 5 kg)	CSS 10
	KIT 50 KG (25 kg + 25 kg)	CSS 50
	CARTRIDGE (2 x 200 ml)	CSS C400

SOFT SOCKET IN COPSIL SOCKET

COPSIL 65

Silicone elastomer very firm



Workshop sheet

Working time at 20 °C	3 min
Removal from mold at 20°C	20 min
Final hardening time	40 min
Density	± 1.1
Resin/Hardener	1:1
Hardness	65 Shore A

Reinforced polyaddition silicone. Two-component system with a very high hardness, about 65 Shore A. Slightly elastic and very tough. Sold in liquid form ready-to-use

APPLICATIONS

Especially designed to copy temporary sockets.

NAME	PACKAGING	REFERENCES
COPSIL 65	KIT 1 KG (500 g + 500 g)	CF-65SR 01
	KIT 10 KG (5kg + 5 kg)	CF-65SR 10



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SOCKET DUPLICATION IN COPSIL 65



> PASTES

COPSIL HTV

ONE COMPONENT

Workshop sheet

Post curing	1 h at 110°C
Density	± 1.1
Hardness	
COPSIL HTV 35	± 35 Shore A
COPSIL HTV 55	± 55 Shore A
COPSIL HTV 70	± 70 Shore A

**COPSIL HTV**

COPSIL HTV are high temperature vulcanization silicone elastomers with high mechanical properties. They crosslink at heat by polyaddition reaction thanks to a platinum salt based catalyst.

COPSIL HTV are available in three hardnesses :

- 35 Shore A
- 55 Shore A
- 70 Shore A

Silicone pieces from COPSIL HTV are implemented thanks to a calendering machine and crosslink within 1 hour at 110°C only. They can be colored thanks to our range of coloring agents in paste designed for HTV silicones.

APPLICATIONS

Manufacturing of prosthetic (socket, partial amputation, etc.) and orthosis.

NAME	PACKAGING	REFERENCES
ONE-COMPONENT (1K)		
COPSIL HTV 35 MONO COMPONENT	2 kg	HTV35 M02
	5 kg	HTV35 M05
COPSIL HTV 55 MONO COMPONENT	2 kg	HTV55 M02
	5 kg	HTV55 M05
COPSIL HTV 70 MONO COMPONENT	2 kg	HTV70 M02
	5 kg	HTV70 M05

> PASTE

SIPORTHO

Silicone in paste

**Workshop sheet**

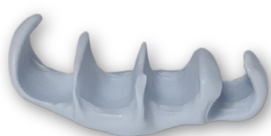
Mixing time	20 sec
Final hardening time 20°C	4 min
Resin/Hardener	1:1
Hardness	>
SIPORTHO 20	20 Shore A
SIPORTHO 35	35 Shore A
SIPORTHO 50	50 Shore A

- **SIPORTHO 20** Soft silicone in paste
- **SIPORTHO 35** Firm silicone in paste
- **SIPORTHO 50** Very firm silicone in paste

Polyaddition silicone in paste, hand mixed, two hardness are available. The hardener is flesh color.

APPLICATIONS

Designed to make orthoplasties.



NAME	PACKAGING	REFERENCES
SIPORTHO 20	KIT 500 G (250 g + 250 g)	SIP20 500
	KIT 1 KG (500 g + 500 g)	SIP20 01
	KIT 50 KG (25 kg + 25 kg)	SIP20 50
SIPORTHO 35	KIT 500 G (250 g + 250 g)	SIP35 500
	KIT 1 KG (500 g + 500 g)	SIP35 01
	KIT 50 KG (25 kg + 25 kg)	SIP35 50
SIPORTHO 50	KIT 500 G (250 g + 250 g)	SIP50 500
	KIT 1 KG (500 g + 500 g)	SIP50 01
	KIT 50 KG (25 kg + 25 kg)	SIP50 50

ORTHOPLASTIE IN SIPORTHO 50

> FINISHING COAT

SILISKIN

Soft-touch silicone coating

Workshop sheet

Resin/Hardener/Powder	100/100/30
Mixing time	1 min
Pot life	36 h
Coefficient of friction	0.9
Consumption	100 to 150 g by m ²
Post cure	30 min at 100°C

Slippery finishing coat with soft touch effect for COPSIL silicones RTV, HTV and LSR silicone. SILISKIN coating drastically reduces the coefficient of friction of silicone surfaces. It is extremely flexible and does not stiffen its support.

It is applied in a thin layer and cures with cooking.

APPLICATIONS: research for a soft, slippery, feel of cured silicones, limit dirt build-up



NAMES	PACKAGING	REFERENCES
STARTER KIT SILISKIN	100 g + 100 g + 30 g	SKS 001
SILISKIN COATING	KIT 200 G (100 g + 100 g)	VSK 200
	KIT 1 KG (500 g + 500 g)	VSK 01
	KIT 10 KG (5 kg + 5 kg)	VSK 10
SILISKIN POWDER	30 g	PSK 030
	150 g	PSK 150
	1.5 kg	PSK 015
SPRAY GUN TREND HD + 600 ML GRAVITY FEED CUP	per unit	PIS E01
600 ML GRAVITY FEED CUP	per unit	GOD 004
METAL TURBINE Ø 45 MM	per unit	AGR 001



SILICONE SHEET



SILICONE GEL SHEET

Covered with a PU film.

Transparent silicone gel sheet with a hardness Shore 00 (not measurable due to its softness). Sticky on the surface, elastic and resistant, it is covered on both sides with a thin removable (or not) film of supple polyurethane (25 µm).

APPLICATIONS

Designed to be incorporated in various custom seats or orthoses to avoid pressure sores.

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NAMES	PACKAGING	REFERENCES
SILICONE GEL SHEET 400 x 400 x 3 mm	à l'unité	PGS 003
SILICONE GEL SHEET 400 x 400 x 6 mm	à l'unité	PGS 006
SILICONE GEL SHEET 400 x 400 x 10 mm	à l'unité	PGS 010
SILICONE GEL SHEET 400 x 400 x 15 mm	à l'unité	PGS 015
SILICONE GEL SHEET 400 x 400 x 3 mm + ADHESIVE FILM (ONE SIDE)	à l'unité	PGS 003_FA
SILICONE GEL SHEET 400 x 400 x 6 mm + ADHESIVE FILM (ONE SIDE)	à l'unité	PGS 006_FA
SILICONE GEL SHEET 400 x 400 x 10 mm + ADHESIVE FILM (ONE SIDE)	à l'unité	PGS 010_FA
SILICONE GEL SHEET 400 x 400 x 15 mm + ADHESIVE FILM (ONE SIDE)	à l'unité	PGS 015_FA

- REINFORCEMENT

ORTHOFLAX®

Flax fiber



ORTHOFLAX® reinforcement has been especially developed and patented for orthopedic devices. Flax fiber provides to the composite some properties never reached by the conventional fibers. Can be used with our ORTHOPOXY® resins and also our COPACRYL resins.

APPLICATIONS in **Prosthetics and orthotics** : Reinforcement for all types of sockets and other splinting devices.



ORTHOFLAX® BRAIDS

Braids knit with flax fibers.

NAMES	GRAMMAGE	PACKAGING	REFERENCES
ORTHOFLAX BRAID - D. 130 mm	130 g/mL	5 m roll	B130 005
ORTHOFLAX BRAID - D. 150 mm	203 g/mL	5 m roll	B150 005

ORTHOFLAX® NON WOVEN

Non woven fabrics made with flax fibers : unidirectional tape, unidirectional fabric (300g/m²), biaxial fabric +/- 45° (350g/m²).

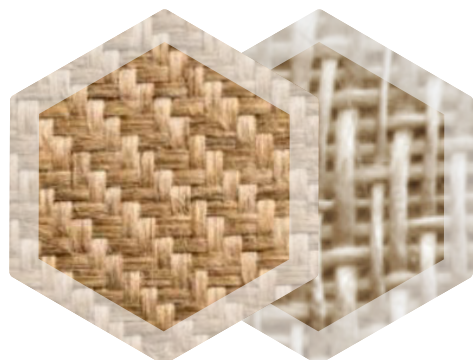
NAMES	WIDTH (MM)	PACKAGING	REFERENCES
ORTHOFLAX FLAT FABRIC	50 mm	50 m roll	TAP 050
ORTHOFLAX UD	1150 mm	5 m roll	UD 005
		10 m roll	UD 010
		20 m roll	UD 020
		50 m roll	UD 050
ORTHOFLAX BIAXIAL	1270 mm	5 m roll	BX 005
		10 m roll	BX 010
		20 m roll	BX 020
		50 m roll	BX 050



ORTHOFLAX® WOVEN

Flax fabric, Satin 0-90° (200g/m²) and Serge 2/2 (300g/m²).

NAMES	WIDTH (MM)	PACKAGING	REFERENCES
ORTHOFLAX 0-90° Natural	1270 mm	5 m roll	SA1 005
		10 m roll	SA1 010
		20 m roll	SA1 020
		50 m roll	SA1 050
ORTHOFLAX TWILL 2/2	1000 mm	5 m roll	SE1 005
		10 m roll	SE1 010
		20 m roll	SE1 020
		50 m roll	SE1 050



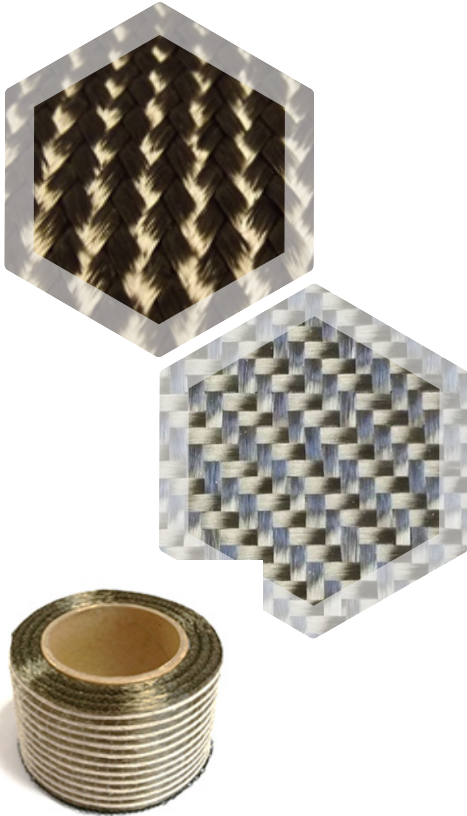


ECO-BLACK

Basalt fibers

Reinforcement range made with basalt fibers. A compromise between carbon and glass fiber. ECO-BLACK reinforcement can be used with our **ORTHOPOLY®** resins and also our **COPACRYL** resins.

APPLICATIONS in Prosthetics and orthotics : Reinforcement for all types of sockets and other splinting devices.



ECO-BLACK BRAIDS

Braids knited with basalt fibers.

NAMES	GRAMMAGE	PACKAGING	REFERENCES
ECO-BLACK BRAID Ø130mm, 5mL	244 g/mL	5 m roll	BB130 005
ECO-BLACK BRAID Ø150mm, 5mL	488 g/mL		BB150 005
ECO-BLACK BRAID Ø225mm, 5mL	661 g/mL		BB225 005

ECO-BLACK TWILL 2/2

Twill 2/2 cloth with basalt fibers.

NAMES	WIDTH	PACKAGING	REFERENCES
ECO-BLACK TWILL 2/2	1270 mm	1 m	SE2 001
ECO-BLACK TWILL 2/2		5 m roll	SE2 005

ECO-BLACK NON WOVEN

Unidirectional tape made with basalt fibers.

NAME	WIDTH	PACKAGING	REFERENCES
ECO-BLACK FLAT FABRIC	50 mm	50 m roll	TAP 150

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HYBRIDS

Flax / Basalt

Reinforcement range made with flax and basalt which permits to combine flax and basalt properties. These reinforcements can be used with our **ORTHOPOLY®** resins and also our **COPACRYL** resins.

APPLICATIONS in Prosthetics and orthotics : Reinforcement for all types of socket and other splinting devices.



HYBRIDS BRAIDS

Braids knited with flax and basalt fibers.

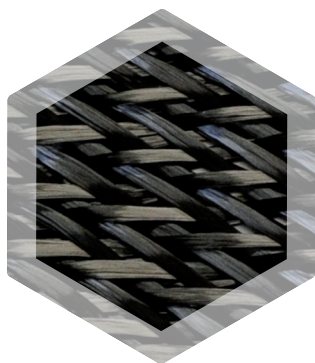
NAMES	GRAMMAGE	PACKAGING	RÉFÉRENCES
FLAX/BASALT HYBRID BRAID - D. 130 mm	185 g/mL	5 m roll	LB130 005
FLAX/BASALT HYBRID BRAID - D. 150 mm	370 g/mL		LB150 005
FLAX/BASALT HYBRID BRAID - D. 225 mm	461 g/mL		LB225 005

HYBRIDS NON WOVEN

Unidirectional tape made with flax and basalt fibers.

NAME	DIAMETER	PACKAGING	REFERENCES
FLAX/BASALT HYBRID TAPE, 50mL	50 mm	50 m roll	TAP 250

CARBON



CARBON BRAIDS

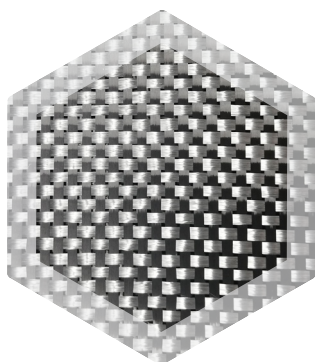
Carbon braid. These braids are available in 2 diameters (tibial and femoral) and are sold by the kg.

APPLICATIONS in **Prosthetics and orthotics**

Reinforcement of all types of tubular devices.

NAMES	PACKAGING	REFERENCES
CARBON BRAID D 125 mm	1 kg (3.7 m at 45°)	GCA 001
CARBON BRAID D 200 mm	1 kg (3.1 m at 45°)	GCA 002

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WOVEN CARBON MAT

Woven mat at 200 g/m², sold by linear meter.

APPLICATIONS in **Prosthetics and orthotics**

Reinforcement for prosthetic sockets or orthoses.

NAME	PACKAGING	REFERENCES
WOVEN MAT (200 G/M2)	by linear meter	TCA 001

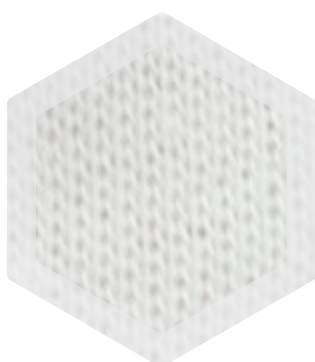
JERSEY

Tubular sheaths

Sold by the kilo. 3 diameters available.

APPLICATIONS in **Prosthetics and orthotics**

Reinforcement of all types of tubular devices (rigid sockets).



PERLON® Fibers

NAMES	PACKAGING	REFERENCES
TUBULAR SHEATH - D 10 CM	1 kg (37 m)	PER 010
TUBULAR SHEATH - D 12 CM	1 kg (33 m)	PER 012
TUBULAR SHEATH - D 15 CM	1 kg (27 m)	PER 015

GLASS

Tubular sheaths

Sold by the kilo. 7 diameters available.

APPLICATIONS in **Prosthetics and orthotics** : Reinforcement of all types of tubular devices.



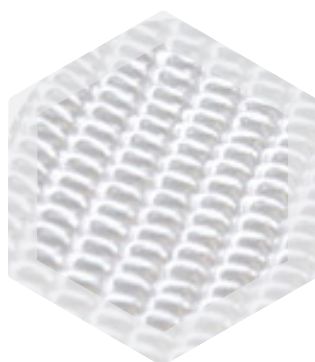
NYLGLASS® & STRETCHNYLGLASS® *30% polyamide and 70% glass*

STRETCHNYLGLASS® is more elastic than traditional **NYLGLASS®**. White color.

NAMES	PACKAGING	REFERENCES
TUBULAR SHEATH - D. 15 CM	1 kg (22m)	NYL 015
TUBULAR SHEATH - D. 20 CM	1 kg (18 m)	NYL 020

NAMES	PACKAGING.	REFERENCES.
TUBULAR SHEATH - D. 9 CM	1 kg (33 m)	SNY 009
TUBULAR SHEATH - D. 12 CM	1 kg (25 m)	SNY 012
TUBULAR SHEATH - D. 15 CM	1 kg (21 m)	SNY 015

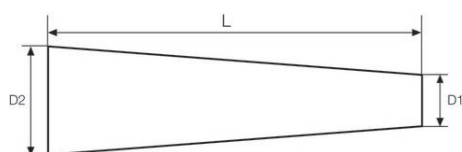
37



100% GLASS

NAMES	PACKAGING	REFERENCES
TUBULAR SHEATH - D. 15 CM	1 kg (9 m)	TVE 015
TUBULAR SHEATH - D. 20 CM	1 kg (7 m)	TVE 020

ACCESSORIES FOR LAMINATION



PVA BAGS

Standard PVA bags. 5 sizes are available.

APPLICATIONS

Plaster insulation for sockets or liners lamination.

NAMES	L X D1 X D2	PACKAGING	REFERENCES
PVA BAG - T.2	102 x 5 x 15 cm	Pack of 20	PVA 015
PVA BAG - T.3	102 x 5 x 20 cm		PVA 020
PVA BAG - T.4	102 x 5 x 25 cm		PVA 025
PVA BAG - T.5	102 x 5 x 30 cm		PVA 030
PVA BAG - T.6	102 x 5 x 35 cm		PVA 035

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NON-WOVEN FELT

Non-woven mat at 200g/m². Available in sheet 2m (1.5m width).

APPLICATIONS in Prosthetics and Orthotics

As an inner layer to resin sockets, this mat gives a very smooth inner surface.

NAME	PACKAGING	REFERENCE
NON-WOVEN FELT	sheet 2 m x 1.5m	FEU 001

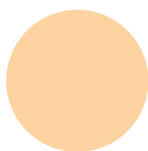


LYCRA TUBES

110 cm length, 20 denier thickness, sold in pack of 50 pieces.

NAME	PACKAGING	REFERENCE
TUBULAR LYCRA - 110 CM	pack of 50	LYT 001

ACCESSORIES FOR SILICONE LINER



COVERING MATERIAL

Two way stretch elastic lycra material (polyamide/elastane), in flesh, perfect for covering supple elastomers (depending of material, use the appropriate glue).

APPLICATIONS in Prosthetics and Orthotics

Outer cover for custom made liner.

NAME	PACKAGING	REFERENCE
LYCRA FABRIC FLESH	2 m x 1,5 m	LYC C01

FINISHING TEXTILES

Abrasion-resistant self-smoothing textiles for the manufacturing of custom-made liners. Measuring 40 cm in length, they are available in two formats:

Size S

- Distal circumference: 22 cm
- Proximal circumference: 23 cm

Size L

- Distal circumference: 27 cm
- Proximal circumference: 28 cm

APPLICATIONS in Prosthetics and Orthotics

Custom-made liner manufacturing

NAMES	PACKAGING	REFERENCES
FINISHING TEXTILE S	per unit	COV S01
FINISHING TEXTILE L	per unit	COV S02



ACCESSORIES FOR SILICONE LINER

MONO-ELASTIC TECHNICAL MATRIX

The matrix support and reinforce the distal attachments. They are mono-elastic distally, elastic proximally, and help counteract the effects of pistoning during the pendulum phase.

APPLICATIONS in Prosthetics and Orthotics

Custom-made liner manufacturing

SHORT (9 CM)

Proximal circumference: 15, 19, 22, 26, 29 and 31 cm.



NAMES	PACKAGING	REFERENCES
SHORT MATRIX PINK 15 cm	per unit	MAT S01
SHORT MATRIX BLUE 19 cm	per unit	MAT S02
SHORT MATRIX YELLOW 22 cm	per unit	MAT S03
SHORT MATRIX RED 26 cm	per unit	MAT S04
SHORT MATRIX GREY 29 cm	per unit	MAT S05
SHORT MATRIX GREEN 31 cm	per unit	MAT S06

LONG (38 CM)

Distal and proximal circumferences:

- 29 and 30 cm
- 32 and 33 cm



NAMES	PACKAGING	REFERENCES
LONG MATRIX BLUE 29;30 cm	per unit	MAT L02
LONG MATRIX YELLOW 32;33 cm	per unit	MAT L03

DISTAL ATTACHMENTS

For distal attachment liners. Available in 5 diameters. To be drowned into custom made liners.

APPLICATIONS in Prosthetics and Orthotics

For retention of liner to a lock.



NAMES	PACKAGING	REFERENCES
DISTAL ATTACHMENT - SIZE 1 - D. 40 MM	per unit	ATA F01
DISTAL ATTACHMENT - SIZE 2 - D. 50 MM	per unit	ATA F02
DISTAL ATTACHMENT - SIZE 3 - D. 60 MM	per unit	ATA F03
DISTAL ATTACHMENT - SIZE 4 - D. 70 MM	per unit	ATA F04
DISTAL ATTACHMENT - SIZE 5 - D. 80 MM	per unit	ATA F05

> CARTRIDGE

CARTRIDGES, GUNS, MIXING TOOLS



COPSIL resins are available in two-component cartridge which allow to inject directly without bubbles.

Empty cartridges and accessories (joints and corks etc.) are available to pack by yourself COPSIL resins in cartridge.

Manual and pneumatic two-part gun are also available.

APPLICATIONS

Injection of silicone resins where the mix ratio is 1/1.

NAMES	PACKAGING	REFERENCES
CARTRIDGE & ACCESSORIES 2 X 200ML	pack of 5	CAR 400
2K DISPENSING GUN PNEUMATIC 2 X 200ML	per unit	PIS CP400
2K DISPENSING GUN MANUAL 2 X 200ML	per unit	PIS C400
MIXER FOR CARTRIDGE (18 ELEMENTS)	pack of 20	EMB 818
MIXER FOR CARTRIDGE (24 ELEMENTS)	pack of 20	EMB 824

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> COATING

SPRAY GUN and accessories



The spray gun has one product entry point at the top (gravity spray gun). The flask proposed is 600mL capacity.

The standard nozzle is 1.6 but can take nozzles up to 3.5. All parts in contact with the liquid are in stainless steel. Cleaning the gun after spraying is easy and flasks are available on request.

APPLICATIONS in Prosthetics and Orthotics

Allows a waterproof and resistant skin on supple foams.

NAME	PACKAGING	REFERENCES
SPRAY GUN TREND HD + 600 ML GRAVITY FEED PAINT CUP	per unit	PIS E01
600 ML GRAVITY FEED PAINT CUP	per unit	GOD 004

RTV SILICON CASTING MACHINE

SILIJET

The machine is equipped with two 2.5 litre product tanks and a manually operated dispensing gun. It is compact and specially designed for small production runs.

The machine uses high accuracy positive displacement piston pumps to provide a constant flow rate for 1:1 such as **COPSIL RTV**.

It is easily connected to the compressed air network..

- Compact and portable
- 5 kg capacity
- More economical and environmentally friendly than cartridges
- Can be sprayed

APPLICATIONS

In Prosthetics and Orthotics : custom-made silicone liner with **COPSIL** silicones.

NOMS	PACKAGING	RÉFÉRENCES
SILIJET - CASTING MACHINE		SIL MC
MIXER FOR SILIJET	pack of 20	EMB 924



- TECHNICAL
PRODUCTS

► COLORING AGENTS

COLOURING AGENTS

For latex, PU, acrylics and RTV / HTV silicones

Workshop sheet :

- Do not use universal colouring agents.
- Depending on the nature of material use the corresponding colouring agent.
- Maximum concentration: 2% in weight.
- Mix well.

Our range of colouring agents is composed of 3 families :

- Acrylic, PU,
- Silicone,
- Latex.

REMARK

We advice not to put more than 2% in weight in your formulations. At higher level, coloring agent can bring releasing properties and reduce adhesion of coatings such as **ERGOPEAU** or **ERGOFLEX**.

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COLOURING AGENTS FOR PU AND ACRYLIC			
	NAMES	PACKAGING	REFERENCES
●	FLESH	250 g	CPU C01
●	DARK FLESH	250 g	CPU CF1
●	BLACK	250 g	CPU N01
○	WHITE	250 g	CPU BL1
●	RED	250 g	CPU R01
●	GREEN	250 g	CPU V01
●	YELLOW	250 g	CPU J01
●	ORANGE	250 g	CPU O01
●	BLUE	250 g	CPU B01

COLOURING AGENTS FOR RTV SILICONE			
	NAMES	PACKAGING	REFERENCES
●	FLESH	250 g	CSI C01
		500 g	CSI C02
●	DARK FLESH	250 g	CSI CF1
		500 g	CSI CF2
●	BLACK	250 g	CSI N01
		500 g	CSI N02
○	WHITE	250 g	CSI BL1
		500 g	CSI BL2
●	RED	250 g	CSI R01
		500 g	CSI R02
●	GREEN	250 g	CSI V01
		500 g	CSI V02
●	YELLOW	250 g	CSI J01
		500 g	CSI J02
●	BLUE	250 g	CSI B01
		500 g	CSI B02

COLORING PASTE FOR HTV SILICONE			
	NAMES	PACKAGING	REFERENCES
●	FLESH	50 g	CSH C50
		1 kg	CSH C01
●	DARK FLESH	50 g	CSH CF50
		1 kg	CSH CF01
●	BLACK	50 g	CSH N50
		1 kg	CSH N01
○	WHITE	50 g	CSH BL50
		1 kg	CSH BL1
●	RED	50 g	CSH R50
		1 kg	CSH R01
●	YELLOW	50 g	CSH J50
		1 kg	CSH J01
●	BLUE	50 g	CSH B50
		1 kg	CSH B01

► RELEASE AGENTS

RELEASE AGENT FOR HARD PU FOAM

Silicone spray

used with : FORMOUSSE

Workshop sheet

- Shake before use
- Spray in thin layers
- Drying time = 3 min
- Don't touch when the layer is dry.

This silicone spray is a sprayable release agent for hard polyurethane foams and elastomers.

It allows an easy separation from all surfaces except plaster.

Do not forget that nothing adheres on silicone except if you use a primary adhesive.

APPLICATIONS

Allows to remove hard foams from latex. Can be sprayed into PE pots to prevent mixed materials from sticking to the inside of the container. Do not use this releasing agent with **ERGOPEAU**.

NAME	PACKAGING	REFERENCES
SILICONE RELEASE AGENT	500 ml aerosol	ISA 001

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RELEASE AGENT FOR ORTHOLEGERE

PU Grease

Workshop sheet :

- Application by hand using a glove.
- Do not use PU Grease as a separator for flexible foams.
- While the PU Grease is applied don't touch

This paste separator is waxed based, it was developed for separating **ORTHOLEGERE** foam from negative plaster casts.

APPLICATIONS

For separating **ORTHOLEGERE** foams from plaster.

NAMES	PACKAGING	REFERENCES
PU GREASE	5 L	GPU 005
	5 L	GPU 005
	50 L	GPU 050

> RELEASING AGENT

RELEASING AGENT P 109-V2

for supple PU foams and silicones

Liquid wax based

Liquid wax based releasing agent. For more efficiency, this product can be used filling/emptying inside molds. It leaves an oily film on mold walls which allows an easy demolding.

APPLICATIONS

Can be used with **SIPMOUSSE SUPPLE**

Can be used with **COPSIL** silicone range.

NAMES	PACKAGING	REFERENCES
WAX RELEASE AGENT P109-V2	1 L	DEP-II 001
	5 L	DEP-II 005
	56 L	DEP-II 056

> RELEASING AGENT

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RELEASING AGENT P 232-V2

for hard PU foams

Liquid wax based

Workshop sheet

- Mix well the can before use
- Application by brush. Ensure the whole brush is well wetted by the product.
- Drying time at 20° : 40 to 45 mn
- Demoulding will always be easier in making a second layer (wait the first layer is dry).
- Do not touch the film once applied.
- As soon as the foam is hard, still warm, unmold quickly.

Liquid wax based releasing agent. For more efficiency, this product can be used filling/emptying inside molds. It leaves an oily film on mold walls which allows an easy demolding.

APPLICATIONS

Can be used between **FORMOUSSE**/plaster.

Can be used between **ORTHOLEGERE**/plaster.

NAMES	PACKAGING	REFERENCES
WAX RELEASE AGENT P232-V2	1 L	ICI-II 001
	5 L	ICI-II 005
	56 L	ICI-II 056

REMARKS

Ensure the solvent is completely evaporated before pouring the foam. Dry either in open air or at a temperature not higher than 70°C. Otherwise the foam will have a cratered surface.

It may require several layers if the plaster is thick. In this case ensure the first layer is dry before a second application.

Consider the separator as a layer of paint, it must be thin and smooth to give the desired result.

Do not use this releasing agent on latex, which is attacked by the solvent. In these cases use our Z 400-V2.

> RELEASING AGENT

RELEASING AGENT

for supple PU foams and Acrylics resins

Vaseline

Workshop sheet

- Application by brush in thin layers.
- Do not use Vaseline for rigid foams as FORMOUSSE or ORTHOLEGERE as this will create a soft surface to the foam.
- When the vaseline film is applied, do not touch it anymore

The vaseline is of pharmaceutical quality CODEX and has no risk of irritating the skin. It has the consistency of animal or vegetal fat and is neutral and unalterable in nature, with neither smell or taste. It is a universal release agent for flexible products and some rigid resins and acrylics.

APPLICATIONS

Universal separator for all rigid and flexible products.

NAME	PACKAGING	REFERENCES
VASELINE	500 ml	VAS 001
	5 L	VAS 005
	54 L	VAS 050

> RELEASING AGENT

RELEASING AGENT Z 400-V2

for hard PU foams

Liquid silicone based

Workshop sheet

- Application by brush.
- Drying time at 20°C : 40 to 45 min.
- To facilitate separation apply a 2nd layer after the first is dry.
- Don't touch the silicone layer once it is dry
- Remove the piece when the foam is still warm but already hard.

It is made of a solvent which evaporates quickly and in which silicone has been incorporated. It is a universal release agent for all surfaces except plaster. It is very fluid and volatile.

APPLICATIONS

Universal separator for hard foams such FORMOUSSE or resins.

NAME	PACKAGING	REFERENCES
SILICONE RELEASE AGENT Z 400-V2	1 L	DEZ-II 001
	5 L	DEZ-II 005
	56 L	DEZ-II 056

TALC CODEX

Use as filler, sliding agent (liners, PVA bags) or release agent (thermoforming).

NAME	PACKAGING	REFERENCES
TALC CODEX	500 ml	TAL 001
	5 L	TAL 002
	30 L	TAL 030

> INSULATORS

INSULATORS

Workshop sheet :

Drying time of the latex skin :

> 20°C : 18 h

FOR SUPPLE FOAMS AND PLASTER *liquid latex*

Latex is a milky white product with a strong ammonia smell, which is used as an isolating agent via the thin rubber layer, is left once the water content has evaporated. You can also use the liquid latex by spraying it on fragile supports. The rubber film will then increase their resistance.

APPLICATIONS

In Prosthetics and Orthotics : It is used to manufacture injected seat corset . In this case, latex is sprayed onto the foam which provides resistance and waterproofing. **Podo-orthesis :** Usually used to insulate plaster molds to produce hard foam of feet from FORMOUSSE 450.

NAME	PACKAGING	REFERENCES
ISULATOR LIQUIDE LATEX	2 L	ILX 002
	5 L	ILX 005
	200 L	ILX 200

FOR PLASTER

Liquid sealer for dry or wet plaster

LIQUID PLASTER SEALER forms a tight layer that makes it possible to waterproof wet plaster by creating a very thin, smooth, and dry film in just a few minutes. It is ready-to-use and formulated with natural thermoplastic resin.

NAME	PACKAGING	REFERENCES
LIQUID PLASTER SEALER	500 ml	IPL 500
	1 l - 5 l	IPL 001
	5 l	IPL 005

POLYETHYLENE FILM

APPLICATIONS

Prosthetics and Orthotics : To close off plaster casts prior to filled with ORTHOLEGERE or SIPMOUSSE SUPPLE. **Podo-orthesis :** Separation between patients and plaster casts.

NAMES	PACKAGING	REFERENCES
STRETCH PE FILM	150 x 0,10 m roll	FIL 015
STRETCH PE FILM	300 x 0,45 m roll	FIL 045



GLUES & ADHESIVES



BLACKGLUE 01

Non CMR Fast-setting non polyurethane adhesive**

APPLICATIONS Specially formulated for bonding, sealing and repairing a wide range of materials.

NAMES	PACKAGING	REFERENCES
BLACKGLUE 01 NON CMR 50 ml	1 unit (+ 3 mixing tools)	BG01 C501
BLACKGLUE 01 NON CMR 220 ml	1 unit (+ 3 mixing tools)	BG01 C221
MIXER FOR 50 ML CARTRIDGES	3 units	EMBC50 003
	36 units	EMBC50 036
	144 units	EMBC50 144
MIXER FOR 220 ML CARTRIDGES	3 units	EMBC220 003
	36 units	EMBC220 036
	144 units	EMBC220 144
2K DISPENSING GUN MANUAL FOR 50 ML CARTRIDGES	1 unit	PISC50 001
2K DISPENSING GUN MANUAL FOR 220 ML CARTRIDGES	1 unit	PISC220 001

*According with European Regulation No. 1272/2008, known as CLP for Classification, Labelling and Packaging, as of 13/10/2023.

ADHESIVE PE TAPE

reinforced or non-reinforced

APPLICATIONS Closing molds.

NAMES	PACKAGING	REFERENCES
TRANSPARENT NON-REINFORCED	50 mm x 66 m roll	ADH 001
TRANSPARENT REINFORCED	50 mm x 66 m roll	ADH A01

SUPPLE CONTACT GLUE

APPLICATIONS Versatile adhesive to spray in thin layers.

NAMES	PACKAGING	REFERENCES
CONTACT GLUE IN SPRAY	500 ml aerosol	CPA 001



► GLUES AND ADHESIVES

GLUES & ADHESIVES

SILICONE GLUE

Mono-component and flexible glue drying with air humidity.

applications Sticking of a lycra fabric on silicone (without using a primary), or silicone on silicone. Can be diluted with our [SOLVENT S3](#).

NAME	PACKAGING	REFERENCES
ACETOXY GLUE	310 mg cartridge (340g)	COL A02

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ADHESION PRIMER PM82 *for Silicone*

Workshop sheet

Aspect	Liquid, fluid
Density	± 0.82.
Viscosity	1 mPa.s at 25°C
Drying time	mini 15 min, max 6 h

Grip of the silicone on different supports.

APPLICATIONS The support must be dry, clean and perfectly free of grease. The solvent must be evaporated before pouring the silicone on the support it has to stick with (a white film must be seen).

NAME	PACKAGING	REFERENCES
PRIMARY GRIP PM82	250 ml	PM82

> SILICON ADDITIVES

GELLING AGENT *for Silicone*

APPLICATIONS It gels RTV silicones, giving it a thixotropic like behavior and allows adjustments when manufacturing custom made liner.

NAME	PACKAGING	REFERENCES
SILICONE GELLING AGENT	500 ml	AGT 001

SILICONE SOFTENING AGENT

APPLICATIONS Silicone oil to reduce silicone resin hardness.

NAMES	PACKAGING	REFERENCES
SILICONE SOFTENING AGENT	2 kg	CNF-50 002
	5 kg	CNF-50 005

► SOLVENTS

SOLVENTS

ACETONE

Solvent and cleaner for the PU and the ERGOPEAU. very flammable, to be used with caution. (Read the safety labels).

APPLICATIONS Stain remover and degreasing agent.

NAME	PACKAGING	REFERENCES
ACETONE	1 L	ACE 001
	5 L	ACE 005
	60 L	ACE 060

ISOPROPYL ALCOHOL

Solvent and cleaning agent to be used with caution. Very flammable. (Read the safety labels)

APPLICATIONS Fluid cleaner for PU resins, acrylics and silicones. Stain removal and degreasing agent.

NAME	PACKAGING	REFERENCES
ISOPROPYL ALCOHOL	1 L	ALC 001
	5 L	ALC 005
	60 L	ALC 060
	200 L	ALC 200

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SOLVENT S1 - SILICONE CLEANING

Silicone thinner and cleaner to be used with caution (Read the safety labels).

APPLICATIONS Can be used also as a cleaner for silicones.

NAME	PACKAGING	REFERENCES
SOLVANT S1 SILICONE CLEANING	1 L	SVS 001
	5 L	SVS 005
	60 L	SVS 060

SOLVENT S3 - SILICONE THINNER

Silicone thinner to be used with caution (Read the safety labels).

APPLICATIONS Used to dilute silicone glue and very viscous silicone elastomers.

NAME	PACKAGING	REFERENCES
SOLVANT S3 SILICONE THINNER	500 ml	SVS3 500
	1 L	SVS3 001
	5 L	SVS3 005

MEASURING & MIXING



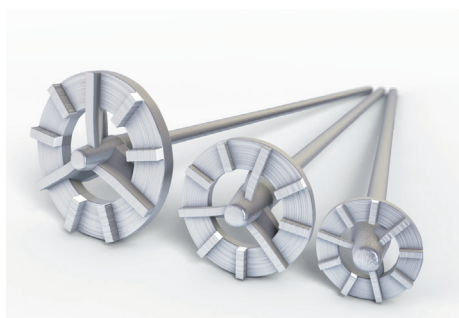
SCALES

- 2 economic models are available depending on the volumes being weighted and the precision of weights required (0,2 kg / 1g), (5kg / 1g).

APPLICATIONS

Precise measuring of chemicals which is essential with PU resins, silicones, acrylics and epoxies.

NAMES	PACKAGING	REFERENCES
SCALE 2000 g to 1 g	per unit	BAL 002
SCALE 5000 g to 1 g	per unit	BAL 003



MIXERS

- 3 models in metal for PU foams
- wooden spatula for manual mixing of PU and silicones elastomers, acrylic and epoxies resins

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APPLICATIONS

Homogeneous mixing of resins and their catalysts.

NAMES	PACKAGING	REFERENCES
METAL TURBINE Ø 45 mm	per unit	AGR 001
METAL TURBINE Ø 65 mm	per unit	AGR 002
METAL TURBINE Ø 90 mm	per unit	AGR 003
WOODEN SPATULA	pack of 50	SPA B01

MIXING CONTAINERS

To obtain a consistent mix we have a series of polyethylene (reusable) pots and buckets in 6 sizes. Their smooth sides improve mixing and removal.



NAMES	PACKAGING	REFERENCES
POT PP 500 ml	pack of 50	POT 102
POT PP 1000 ml		POT 101
BUCKET 2,8 L	pack of 5	SDM 001
BUCKET 5 L		SDM 002
BUCKET 17 L		SDM 003
BUCKET 30 L		SDM 004

MEASURING & MIXING



INJECTION TAP

NAME	PACKAGING	REFERENCE
INJECTION TAP	per unit	ROB 006

JERRICAN TAP

Small flow tap for 5L or 30L jerrican

NAMES	PACKAGING	REFERENCES
TAP-CAP FOR 30 L JERRYCAN	per unit	ROB 004
TAP FOR 5 L CAN	pack of 10	ROB 007



• SAFETY &
PROTECTION

SUIT AND GLOVES



SAFETY SUITS

Disposable lightweight strong work suit. Made from polyethylene (protection category 3, type 4-5-6, to the standard CE 95-0302), it is impermeable to aerosols dust and liquid splashes. It also has a hood and elasticated cuffs and waist and a front zip. Available in 3 sizes : L, XL, XXL.

APPLICATIONS

Protection of people and clothing

NAMES	PACKAGING	REFERENCES
PROTECTIVE SUIT TIVEK - SIZE L	per unit	COM 001
PROTECTIVE SUIT TIVEK - SIZE XL	per unit	COM 002
PROTECTIVE SUIT TIVEK - SIZE XXL	per unit	COM 003

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NITRILE AND VINYL GLOVES

Nitrile gloves for all kind of product.

⚠ Do not use latex gloves for platinum cured silicones

NAMES	PACKAGING	REFERENCES
NITRILE GLOVES - SIZE M	pack of 100	GNT 001
NITRILE GLOVES - SIZE L	pack of 100	GNT L01



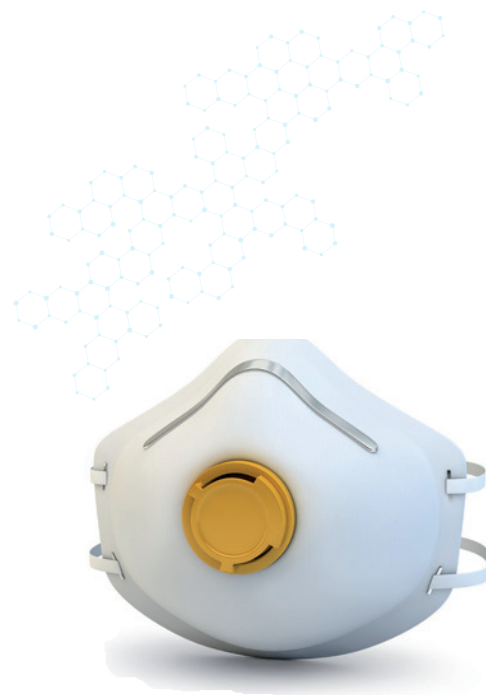
MASKS AND GLASSES

DUST MASKS

For protection, especially from sanding the rigid and soft elastomers and foams products. Light, hygienic and comfortable, they are held in place with a double elastic band, and are in boxes of 10.

Protection category : EN 149 : 2001 +A1 : 2009 CE0086

NAMES	PACKAGING	REFERENCES
DUST PROTECTIVE MASK	pack of 10	MAS 001



VAPOUR MASKS

To protect airways from organic gas or vapours, acid gas or vapours, ammonia and amines. They have a dust proof filter and an active carbon filter, needing no maintenance and disposable once saturated. It is suited for vapour protection from isocyanates from the reaction of our polyurethanes and hardener. These vapours also have suitable warning noticed, and the odour should not be smelt through the mask.

If it is smelly then it is time to change the filter.

The protection class is : FFABEK1P2SL.

NAMES	PACKAGING	REFERENCES
VAPOR PROTECTIVE MASK	per unit	MAS 002



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PROTECTION GLASSES

Translucid frame glasses for excellent frontal protection, and side screens on the arms. Excellent protection and comfort.

NAME	PACKAGING	REFERENCES
PROTECTIVE GLASSES	per unit	LUN 001



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