CREATIVE & RESPONSIBLE CHEMISTRY

PRODUCT CATALOGUE

September 2024

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..

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

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.

01 integrated laboratory

02 innovation awards

25% of employees in R&D

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.

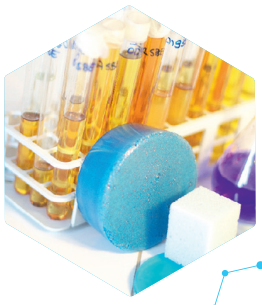
Depending on their utilization, COP polymers provide : comfort, lightness or mechanical performance.

Silicones
gels, elastomers

Acrylics
composites

Epoxy
biocomposite
(BPA free resin)

Polyurethanes
elastomers, foams,
elastic coating



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.

Complementary
PRODUCTS

COP also supplies all accessories needed for polymers processing operations.

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

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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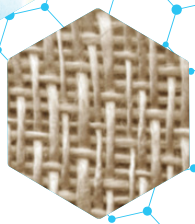


TRAINING

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.

· EPOXY

> COMPOSITE RESINS

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)

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, applicating the resin, crosslinking at room temperature and post-curing to reach the maximum hardness and Tg.

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).

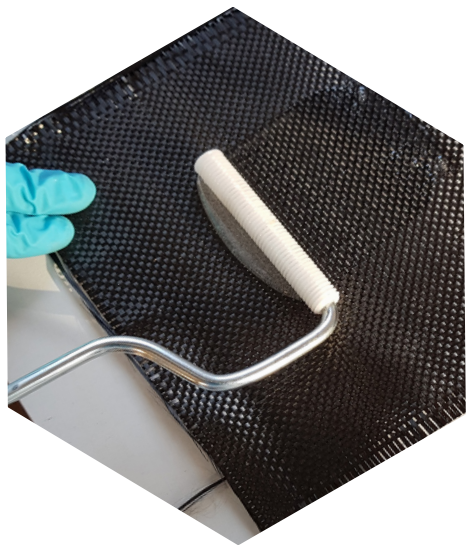
PERFORMANCES

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 ShoreD

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 - 2.5 kg - 5 kg	SPC R01, R02, R03
SAFEPOXY CONTACT HARDENER SLOW	400 g - 1 kg - 2x1 kg	SPC DS01, DS02, DS03
SAFEPOXY CONTACT HARDENER FAST	400 g - 1 kg - 2x1 kg	SPC DF01, DF02, DF03
SAFEPOXY GAP FILLER RESIN	1 kg - 2.5 kg - 5 kg (pot)	SPE R01, R02, R03
SAFEPOXY GAP FILLER HARDENER	400 g - 1 kg - 2x1 kg	SPE D01, D02, D03
SAFEPOXY SEALANT RESIN + FILLER	1 kg - 2.5 kg - 5 kg (pot)	SPM RC01, RC02, RC03
SAFEPOXY SEALANT HARDENER	400 g - 1 kg - 2x1 kg	SPM D01, D02, D03

LAMINATING RESINS

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	>	approx. 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	>	approx. 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	>	approx. 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 - 2.5 kg - 5 kg	EPOX-F R01, R02, R03
ORTHOPOXY FAST Hardener	400 g - 1 kg - 2x1 kg	EPOX-F D01, D02, D03
ORTHOPOXY SLOW Resin	1 kg - 2.5 kg - 5 kg	EPOX-S R01, R02, R03
ORTHOPOXY SLOW Hardener	400 g - 1 kg - 2x1 kg	EPOX-S D01, D02, D03
ORTHOPOXY CLEAR Resin	1 kg - 2.5 kg - 5 kg	EPOX-C R01, R02, R03
ORTHOPOXY CLEAR Hardener	400 g - 1 kg - 2x1 kg	EPOX-C D01, D02, D03

SOCKET IN BIOCOMPOSITE EPOXY/FLAX

ACRYLIC

LAMINATING RESINS

COPACRYL

Jersey, carbon, supple, glue, glue gel

Hardener : SIPACRYL

Workshop sheet

JERSEY RESIN

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

CARBON RESIN

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

GLUE RESIN

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

SUPPLE RESIN

To mix with	>	Jersey /Carbon resins (10 to 30 %)
Viscosity	>	approx. 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

PROSTHETIC SOCKET

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 - 4.9 kg - 25 kg	CAC J01 - J05 - J25
COPACRYL carbon	900 g - 4.9 kg - 25 kg	CAC F01 - F05 - F25
COPACRYL glue	900 g - 4.9 kg - 25 kg	CAC C01 - C05 - C25
COPACRYL glue gel	750 g	CAC G750
COPACRYL supple	900 g - 4.9 kg - 25 kg	CAC S01 - S05 - S25
SIPACRYL HARDENER	150g in bag, 150g in pot	SYD-II 101, 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 min
Expansion	>	approx. 1.4
Density	>	approx. 700 g/l
Resin/Hardener	>	100/100
Hardness	>	approx. 70 Shore D

FORMOUSSE 450

Expansion start time at 20°C	>	1 min
End of expansion	>	2 min
Removal from mould	>	10 min
Expansion	>	approx. 2.2
Density	>	approx 450 g/l
Resin/Hardener	>	100/100
Hardness	>	approx. 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	>	approx. 4.3
Density	>	appr. 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	>	approx. 5.9
Density	>	appr. 170 g/l
Resin/Hardener	>	100/100
Hardness	>	25 Shore D

FORMOUSSE 450

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.

NAMES	PACKAGING	REFERENCES
FORMOUSSE 700	2 kg - 5 kg - 60 kg	FRB 702, 705, 760
FORMOUSSE 450	2 kg - 5 kg - 60 kg	FRB 402, 405, 460
FORMOUSSE 300	2 kg - 5 kg - 60 kg	FRB 302, 305, 360
FORMOUSSE 200	2 kg - 5 kg - 60 kg	FRB 202, 205, 260
HARDENER MD*	2 kg - 5 kg - 60 kg	DMD 002, 005, 060

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

> 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

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

Compressed, ORTHOLÉGÈRE 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

ORTHOLÉGÈRE 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**

NAMES	PACKAGING	REFERENCES
ORTHOLÉGÈRE 60	2 kg - 5 kg - 60 kg	ORT R12, R15, R160
HARDENER MD*	2 kg - 5 kg - 60 kg	DMD 002, 005, 060

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

> 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

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**

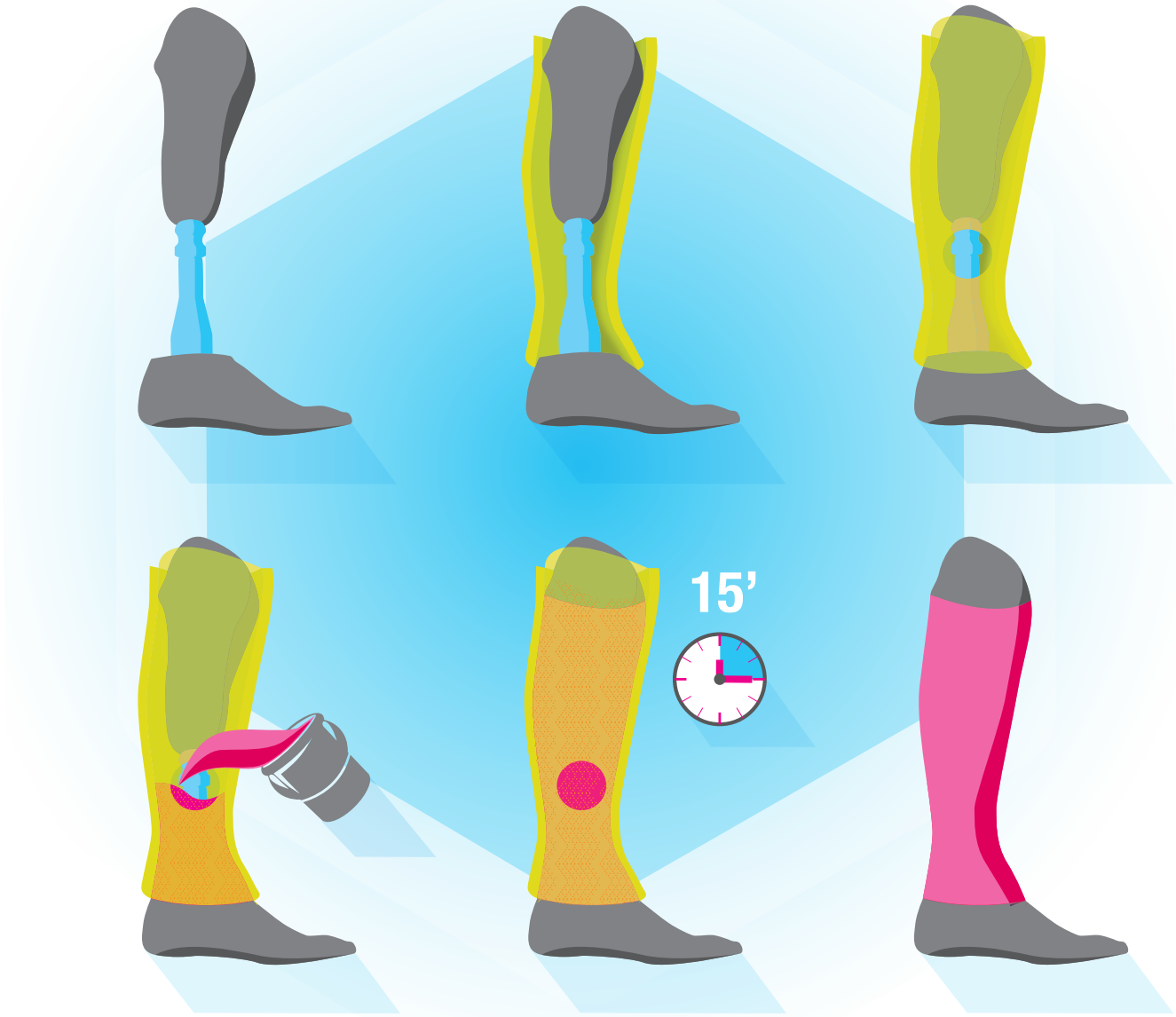
Used to form the extremity of shapes in FORMOUSSE. After complete cooling, RESIDUR is resistant to compression during thermoforming.

NAMES	PACKAGING	REFERENCES
RESIDUR	2 kg - 5 kg	REDB R02, R05
HARDENER MD*	2 kg - 5 kg	DMD 002, 0005

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

> SUPPLE FOAMS

P.E. SHELLS
FOR BELOW KNEE COSMETIC



REFERENCES & DIMENSIONS							
Names	Sizes	Sides	Ankle measurement	Claf measurement	Height knee / floor	Corresponding reference	Packaging
ESTHETIC SHELL	t1	right	24	36	44/48	COQ-EST T1D	à l'unité
		left	24	36	44/48	COQ-EST T1G	à l'unité
ESTHETIC SHELL	t2	right	24	39	44/48	COQ-EST T2D	à l'unité
		left	24	39	44/48	COQ-EST T2G	à l'unité
ESTHETIC SHELL	t3	right	25	39	49/55	COQ-EST T3D	à l'unité
		left	25	39	49/55	COQ-EST T3G	à l'unité
ESTHETIC SHELL	t4	right	26	44	49/55	COQ-EST T4D	à l'unité
		left	26	44	49/55	COQ-EST T4G	à l'unité

> 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	>	approx 80 g/l
Resin/Hardener	>	100/80
Hardness	>	approx. 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 our PE shells.

NAMES	PACKAGING	REFERENCES
SIPMOUSSE ESTHETIC	2 kg - 5 kg	MSC R02, R05
HARDENER MS*	2 kg - 5 kg	DMS 002, 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 à 40 s.
End of expansion	> env. 3 mn
Removal from mold	> 30 mn
Expansion	> env. 18
Density	> 55 gr/l
Resin/Hardener	> 100/80
Hardness	> 35 Shore 00

SIPMOUSSE 80, 70/30, 30/70

Expansion start time at 20°C	> 30 à 40 s.
End of expansion	> env. 3 mn
Removal from mold	> 90 mn
Expansion	> env. 12
Density	> 75/80 g/l
Resin/Hardener (S. 80)	> 100/50
Resin/Hardener (S. 70/30)	> 100/56
Resin/Hardener (S. 30/70)	> 100/60
Hardness	> de 5 à 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**	*intermediairy*
SIPMOUSSE SUPPLE **30/70 firme**	*the firmer*

NAMES	PACKAGING	REFERENCES
SIPMOUSSE SUPPLE 50 “light”	2 kg - 5 kg	MSH R02, R05
SIPMOUSSE SUPPLE 80 “supple”	2 kg - 5 kg	MSP R02, R05
SIPMOUSSE SUPPLE 70/30 “medium”	2 kg - 5 kg	MSL R02, R05
SIPMOUSSE SUPPLE 30/70 “firme”	2 kg - 5 kg	MST R02, R05
HARDENER MS*	2 kg - 5 kg	DMS 002, 005

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

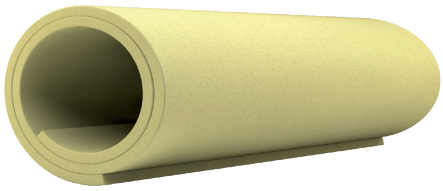
> SHEETS

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	REFERENCES
SIPMOUSSE FINITION	200 x 85 x 0.6 cm	MSP P06



VISCOMOUSSE

Memory foams, viscoelastic

Supple foams with «slow return». This property offers high damping properties and comfort as gels but has the advantage to be light.

Available in 100 x 100 cm sheet, 2,5 and 5cm thickness and in 3 hardness: supple, medium, firm.

These foams can be colored and covered with our elastic and resistant coating: ERGOPEAU.

NAMES	PACKAGING	REFERENCES
VISCOMOUSSE supple	100 x 100 x 2.5 ou 5 cm	PVS 102, PVS 105
VISCOMOUSSE medium	100 x 100 x 2.5 ou 5 cm	PVM 102, PVM 105
VISCOMOUSSE firm	100 x 100 x 2.5 ou 5 cm	PVF 102, PVF 105

> COATING

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

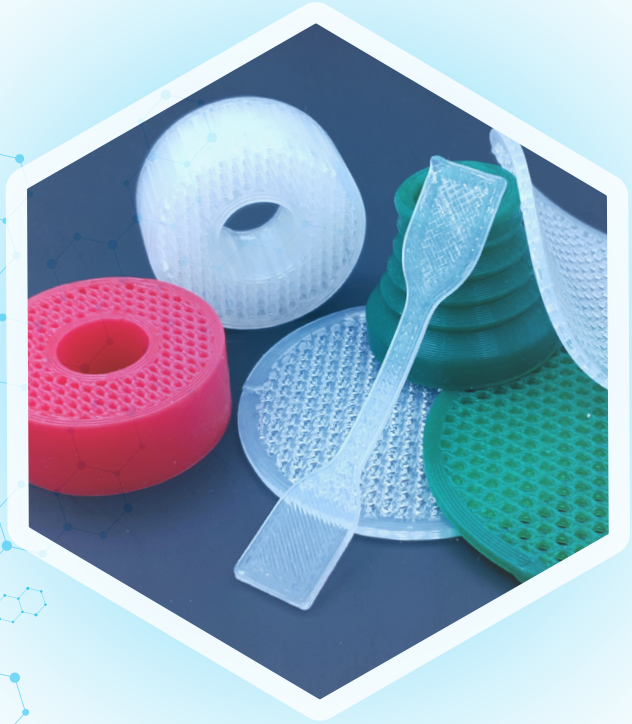
Protection, finishing, decoration and waterproofing of PU elastomers, rigid or supple.

NAMES	PACKAGING	REFERENCES
ERGOPEAU resin	1 l - 5 l - 25 l - 57 l	EGE3 R01, R05, R25, R57
ERGOFLEX resin	1 l - 5 l - 25 l - 57 l	EFX R01, R05, R25 , R57
ERGOPEAU primer	1 l - 5 l - 25 l - 61 l	PPE R01, R05, R25 , R61

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

> Flash to watch the video

· SILICONE



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 0525

Resin/Hardener	>	1 : 1
Hardness	>	05 Shore A
Working time in the mixer*	>	25 min

COPSIL 3D 1025

Resin/Hardener	>	1 : 1
Hardness	>	10 Shore A
Working time in the mixer *	>	25 min

COPSIL 3D 2525

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

COPSIL 3D 4025

Resin/Hardener	>	1 : 1
Hardness	>	40 Shore A
Working time in the mixer*	>	25 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 equal parts and cross-linked at room temperature by polyaddition reaction with a platinum-based catalyst. They are certified for skin contact according to ISO 10993-5.

NAME	PACKAGING	REFERENCES
COPSIL 3D 0525 - KIT 110 ml	2 x 55 ml	3D0525 C110
COPSIL 3D 0525 - KIT 950 ml	2 x 475 ml	3D0525 C1900
COPSIL 3D 0525 - KIT 2 kg	IN BULK	3D0525 002
COPSIL 3D 0525 - KIT 10 kg	IN BULK	3D0525 010
COPSIL 3D 1025 - KIT 110 ml	2 x 55 ml	3D1025 C110
COPSIL 3D 1025 - KIT 950 ml	2 x 475 ml	3D1025 C1900
COPSIL 3D 1025 - KIT 2 kg	IN BULK	3D1025 002
COPSIL 3D 1025 - KIT 10 kg	IN BULK	3D1025 010
COPSIL 3D 2525 - KIT 110 ml	2 x 55 ml	3D2525 C110
COPSIL 3D 2525 - KIT 950 ml	2 x 475 ml	3D2525 C1900
COPSIL 3D 2525 - KIT 2 kg	IN BULK	3D2525 002
COPSIL 3D 2525 - KIT 10 kg	IN BULK	3D2525 010
COPSIL 3D 4025 - KIT 110 ml	2 x 55 ml	3D4025 C110
COPSIL 3D 4025 - KIT 950 ml	2 x 475 ml	3D4025 C1900
COPSIL 3D 4025 - KIT 2 kg	IN BULK	3D4025 002
COPSIL 3D 4025 - KIT 10 kg	IN BULK	3D4025 010
COPSIL 3D 4050 - KIT 110 ml	2 x 55 ml	3D4050 C110
COPSIL 3D 4050 - KIT 950 ml	2 x 475 ml	3D4050 C1900
COPSIL 3D 4050 - KIT 2 kg	IN BULK	3D4050 002
COPSIL 3D 4050 - KIT 10 kg	IN BULK	3D4050 010

> PRINTING SUPPORT

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:

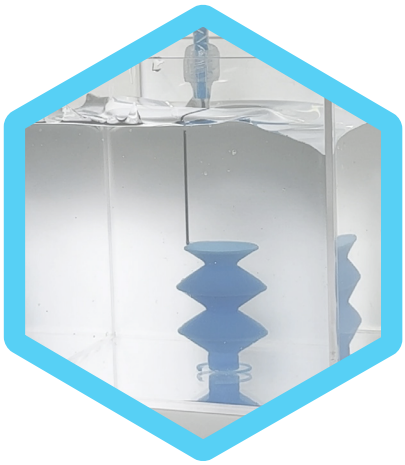
- ·Support complex structures,
- ·Improve final aspect of printed parts by liquid deposition (smoothing),
- ·Ready-to-use,
- ·Transparent (useful for supervising your printing in progress),
- ·Chemically inert with silicone,
- ·Water rinseable,
- ·No impact on mechanical properties of printed silicones,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

The extrusion of liquid silicone takes place within the gel thatsupports 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	1.1 KG POT	ADD-GEL 001
COPSIL 3D ADD-GEL – 5 KG BUCKET	5 KG BUCKET	ADD-GEL 005



> GELS

COPSIL GEL 00, 25, 30 & 40

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

COPSIL GEL-30

Working time at 20 °C	>	15 min
Demolding time at 20°C	>	1 h
Final hardening time	>	24 h
Resin/Hardener	>	1 : 1
Hardness	>	30 Shore 00

COPSIL GEL-40

Working time at 20 °C	>	8 min
Demolding time at 20°C	>	50 min
Final hardening time	>	24 h
Resin/Hardener	>	1 : 1
Hardness	>	40 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-30 & 40 are dry, translucent, compact, very soft and resistant materials. Hardness available are 30 and 40 Shore 00. Regarding their viscoelasticity they are classified as «fast return» silicone gels.

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 respect the ISO 10993-5 standard.

APPLICATIONS

COPSIL GEL-30 or GEL-40 are primarily dedicated to make supple support as heel cushions, patellar rings pads etc. which do not compress under load.

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

NAMES	PACKAGING	REFERENCES
COPSIL GEL-00 Resin	500 g - 5, 25 kg	GLCS-00 R01, R05, R25
COPSIL GEL-00 Hardener	500 g - 5, 25 kg	GLCS-00 D01, D05, D25
COPSIL GEL-25 Resin	500 g - 5, 25 kg	GLC-25 R01, R05, R25
COPSIL GEL-25 Hardener	500 g - 5, 25 kg	GLC-25 D01, D05, D25
COPSIL GEL-30 Resin	500 g - 5, 25 kg	GES-30 R01, R05, R25
COPSIL GEL-30 Hardener	500 g - 5, 25 kg	GES-30 D01, D05, D25
COPSIL GEL-30 Cartridge 2x200 ml	per unit	GES-30 C400
COPSIL GEL-40 Resin	500 g - 5, 25 kg	GES-40 R01, R05, R25
COPSIL GEL-40 Hardener	500 g - 5, 25 kg	GES-40 D01, D05, D25
COPSIL GEL-40 Cartridge 2x200 ml	per unit	GES-40 C400

> ELASTOMER

COPSIL DUPLICATOR

Impression silicone

Workshop sheet:		
Working time at 20 °C	>	3 min
Demolding time at 20°C	>	10min
Final hardening time	>	15 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.

NAMES	PACKAGING	REFERENCES
COPSIL DUPLICATOR RESIN	500 g, 5 kg	DUPR R01, R05
COPSIL DUPLICATOR HARDENER	500 g, 5 kg	DUPR D01, D05

> ELASTOMERS

COPSIL

Silicone elastomer

Specificity

> The whole COPSIL range can be used in contact with skin as it respects the ISO 10993-5 standard.

> Density	approx. 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.

NAMES	HARDNESS	ELONGATION AT BREAK (%)	MIX VISCOSITY (mPa.s)
COPSIL 2	33 Sh 00	480	normal : 7 000 / fast : 5 000
COPSIL 3	48 Sh 00	870	fast : 6 000
COPSIL 5	5 Sh A	800	normal : 5 500 / fast: 5 500
COPSIL 12	12 Sh A	950	normal : 11 500 / fast : 12 500
COPSIL 16	16 Sh A	500	fast : 6000
COPSIL 20	20 Sh A	930	fast : 6000
COPSIL 40	40 Sh A	300	normal : 45 000 / fast : 55 000

NAMES	PACKAGING	REFERENCES
COPSIL 2 RESIN	500 g - 5, 25 kg	normal : T-02SN R01, R05, R25 / fast : T-02SR R01, R05, R25
COPSIL 2 HARDENER	500 g - 5, 25 kg	normal : T-02SN D01, D05, D25 / fast : T-02SR D01, D05, D25
CARTRIDGE	2x200 ml	T-02SR C400
COPSIL 3 RESIN	500 g - 5, 25 kg	fast : T-03TR R01, R05, R25
COPSIL 3 HARDENER	500 g - 5, 25 kg	fast : T-03TR D01, D05, D25
CARTRIDGE	2x200 ml	T-03TR C400
COPSIL 5 RESIN	500 g - 5, 25 kg	normal : T-05TN R01, R05, R25 / fast : T-05TR R01, R05, R25
COPSIL 5 HARDENER	500 g - 5, 25 kg	normal : T-05TN D01, D05, D25 / fast : T-05TR D01, D05, D25
CARTRIDGE	2x200 ml	T-05TR C400
COPSIL 12 RESIN	500 g - 5, 25 kg	normal : T-12TN R01, R05, R25 / fast : T-12TR R01, R05, R25
COPSIL 12 HARDENER	500 g - 5, 25 kg	normal : T-12TN D01, D05, D25 / fast : T-12TR D01, D05, D25
CARTRIDGE	2x200 ml	T-12TR C400
COPSIL 16 RESIN	500 g - 5, 25 kg	fast : T-16SR R01, R05, R25
COPSIL 16 HARDENER	500 g - 5, 25 kg	fast : T-16SR D01, D05 , D25
COPSIL 20 RESIN	500 g - 5, 25 kg	normal : T-20TN R01, R05, R25 / fast : T-20TR R01, R05, R25
COPSIL 20 HARDENER	500 g - 5, 25 kg	normal : T-20TN D01, D05, D25 / fast : T-20TR D01, D05, D25
CARTRIDGE	2x200 ml	T-016SR C400
COPSIL 40 RESIN	500 g - 5, 25 kg	normal : T-40TN R01, R05, R25 / fast : T-40TR R01, R05, R25
COPSIL 40 HARDENER	500 g - 5, 25 kg	normal : T-40TN D01, D05, D25 / fast : T-40TR D01, D05, D25
CARTRIDGE	2x200 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.

NAMES	PACKAGING	REFERENCES
COPSIL SOCKET RESIN	500 g - 5 kg - 25 kg	CSS R01, R05 , R25
COPSIL SOCKET HARDENER	500 g - 5 kg - 25 kg	CSS D01, D05 , D25
CARTRIDGE	2x200 ml	CSS C400

> ELASTOMERS

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	>	approx. 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 RESIN	500 g - 5 kg	CF-65 SR R01, R05
COPSIL 65 HARDENER	500 g - 5 kg	CF-65 SR D01, D05

> PASTES

COPSIL HTV

ONE COMPONENT

Workshop sheet

Post curing	> 1 h at 110°C
Density	> approx. 1.1
Hardness	
COPSIL HTV 35	> +/- 35 Shore A
COPSIL HTV 55	> +/- 55 Shore A
COPSIL HTV 70	> +/- 70 Shore A

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 one-component	2, 5 kg	HTV35 M02, M05
COPSIL HTV 55 one-component	2, 5 kg	HTV55 M02, M05
COPSIL HTV 70 one-component	2, 5 kg	HTV70 M02, 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 resin	250, 500 g - 25 kg	SIP R01, R02, R25
SIPORTHO 20 hardener	250, 500 g - 25 kg	SIP D01, D02, D25
SIPORTHO 35 resin	250, 500 g - 25 kg	SIP R11, R12, R125
SIPORTHO 35 hardener	250, 500 g - 25 kg	SIP D11, D12, D125
SIPORTHO 50 resin	250, 500 g - 25 kg	SIP R51, R52, R525
SIPORTHO 50 hardener (blue)	250, 500 g - 25 kg	SIP D51, D52, D525

> FINISHING COAT

SILISKIN

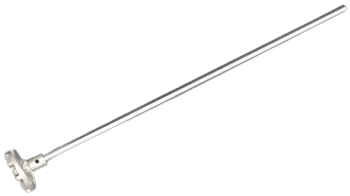
Soft-touch silicone coating

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



NAME	PACKAGING	REFERENCES
SILISKIN COATING RESIN	500 g - 5 kg	VSK R01, R05
SILISKIN COATING HARDENER	500 g - 5 kg	VSK D01, D05
SILISKIN POWDER	150 g - 1,5 kg	PSK 150, 015
SPRAY GUN TREND HD, WITH 600 ML GRAVITY FEED PAINT CUP	per unit	PIS E01
600 ML GRAVITY FEED PAINT CUP	per unit	GOD 004
METAL TURBINE Ø 45 MM	per unit	AGR 001

> SHEETS

GELS IN SHEET

POLESCARE & SILESCARE

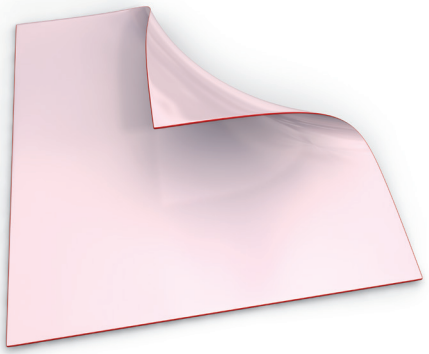
Covered with a PU film.

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.

NAMES	PACKAGING	REFERENCES
Sheet 40 x 40 cm in 10 mm	per unit	POLS 202
Sheet 35 x 25 cm in 10 mm	per unit	POLS 105
Sheet 35 x 50 cm in 10 mm	per unit	POLS 205
Sheet 40 x 20 cm in 15 mm	per unit	SILE 112
Sheet 40 x 40 cm in 15 mm	per unit	SILE 212
Sheet 35 x 25 cm in 15 mm	per unit	SILE 115
Sheet 35 x 50 cm in 15 mm	per unit	SILE 215



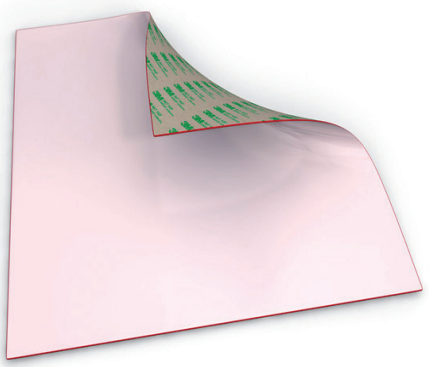
ARTGEL COMFORT

*Covered with a **PU** film or with an adhesive film*

Red silicone gel sheet, with non measurable hardness (0 Shore 00). It is covered on both sides with a very thin PU film (25 µ). Those sheets are available in 3 and 6 mm thickness and in sheet sizes of 40x40 cm and 40x20 cm.

APPLICATIONS

Comfort part of orthoses, prostheses and insoles.



NAMES	PACKAGING	REFERENCES
Sheet 40 x 40 cm in 3 mm	per unit	PBCN S 103
Sheet 40 x 40 cm in 6 mm	per unit	PBCN S 106
Sheet 40 x 20 cm in 3 mm, with adhesive	per unit	PBCNA S 003
Sheet 40 x 20 cm in 6 mm, with adhesive	per unit	PBCNA S 006
Sheet 40 x 40 cm in 3 mm, with adhesive	per unit	PBCNA S 103
Sheet 40 x 40 cm in 6 mm, with adhesive	per unit	PBCNA S 106

· 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

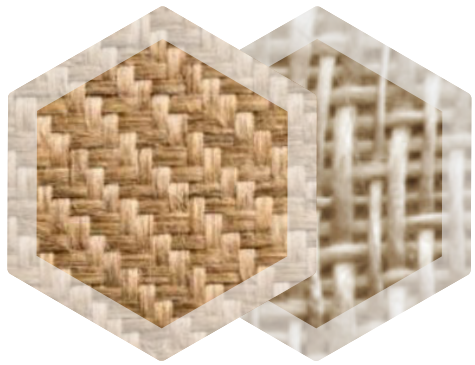
Braids knit with flax fibers.

NAMES	GRAMMAGE	PACKAGING	REFERENCES
ORTHOFLAX BRAID Ø130mm, 5mL	130 g/mL	5 m roll	B130 005
ORTHOFLAX BRAID Ø150mm, 5mL	203 g/mL	5 m roll	B150 005

ORTHOFLAX® NON WOVEN

Non woven fabrics made with flax fibers : unidirectional tape, unidirectional fabric (300g/m^2), biaxial fabric +/- 45° (350g/m^2).

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



ORTHOFLAX® WOVEN

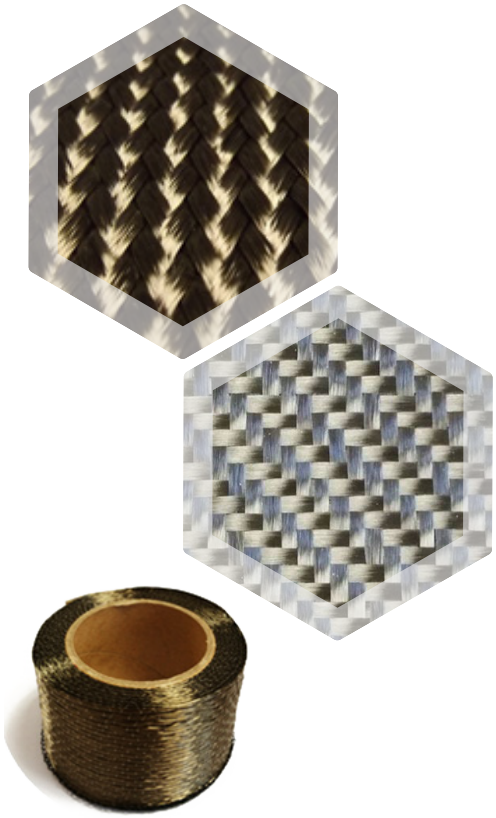
Flax fabric, Satin 0-90° (200g/m^2) and Serge 2/2 (300g/m^2).

NAMES	WIDTH (MM)	PACKAGING	REFERENCES
ORTHOFLAX 0-90° Natural, 5 mL	1270 mm	5 m roll	SA1 005
ORTHOFLAX 0-90° Natural, 10 mL	1270 mm	10 m roll	SA1 010
ORTHOFLAX 0-90° Natural, 20 mL	1270 mm	20 m roll	SA1 020
ORTHOFLAX 0-90° Natural, 50 mL	1270 mm	50 m roll	SA1 050
ORTHOFLAX Serge 2/2, 5 mL	1000 mm	5 m roll	SE1 005
ORTHOFLAX Serge 2/2, 10 mL	1000 mm	10 m roll	SE1 010
ORTHOFLAX Serge 2/2, 20 mL	1000 mm	20 m roll	SE1 020
ORTHOFLAX Serge 2/2, 50 mL	1000 mm	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 ORTHOPOXY® 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	GRAMAMGE	PACKAGING	REFERENCES
ECO-BLACK BRAID Ø130mm, 5mL	244 g/mL	5 m roll	BB130 005
ECO-BLACK BRAID Ø150mm, 5mL	488 g/mL	5 m roll	BB150 005
ECO-BLACK BRAID Ø225mm, 5mL	661 g/mL	5 m roll	BB225 005

ECO-BLACK TWILL 2/2

Twill 2/2 cloth with basalt fibers.

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

ECO-BLACK NON WOVEN

Unidirectional tape made with basalt fibers.

NAME	WIDTH	PACKAGING	REFERENCES
ECO-BLACK TAPE, 50mL	50 mm	50 m roll	TAP 150

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 ORTHOPOXY® 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.

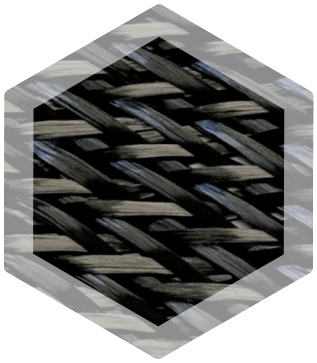
NAMES	GRAMMAGE	PACKAGING	RÉFÉRENCES
HYBRID BRAID Ø130mm, 5mL	185 g/mL	5 m roll	LB130 005
HYBRID BRAID Ø150mm, 5mL	370 g/mL	5 m roll	LB150 005
HYBRID BRAID Ø225mm, 5mL	461 g/mL	5 m roll	LB225 005

HYBRIDS NON WOVEN

Unidirectional tape made with flax and basalt fibers.

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

CARBON



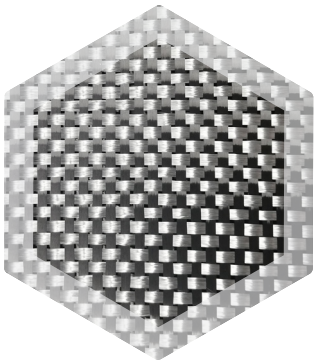
CARBON BRAIDS

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 Ø 125 mm	1 kg (approx. 3.7 m at 45°)	GCA 001
CARBON BRAID Ø 200 mm	1 kg (approx. 3.1 m at 45°)	GCA 002



WOVEN CARBON MAT

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

APPLICATIONS in **Prosthetics and orthotics**

Reinforcement for prosthetic sockets or orthoses.

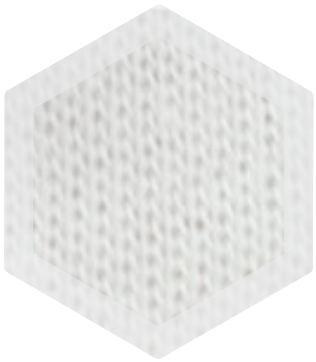
NAME	PACKAGING	REFERENCES
WOVEN MAT	by linear meter	TCA 001

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 white Ø 10 cm	1 kg (env. 35 m)	PER 010
TUBULAR SHEATH white Ø 12 cm	1 kg (env. 33 m)	PER 012
TUBULAR SHEATH white Ø 15 cm	1 kg (env. 22 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.

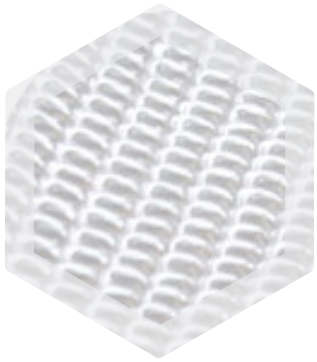
NYLGLASS® & STRETCHNYLGLASS®

30% polyamide and 70% glass

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

NAMES	PACKAGING	REFERENCES
TUBULAR SHEATH Ø 15 cm	1 kg (approx. 22 m)	NYL 015
TUBULAR SHEATH Ø 20 cm	1 kg (approx. 16 m)	NYL 020

NAMES	PACKAGING.	REFERENCES.
TUBULAR SHEATH Ø 9 cm	1 kg (approx. 52 m)	SNY 009
TUBULAR SHEATH Ø 12 cm	1 kg (approx. 31 m)	SNY 012
TUBULAR SHEATH Ø 15 cm	1 kg (approx. 24 m)	SNY 015

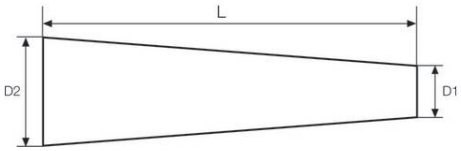


100% GLASS

NAMES	PACKAGING	REFERENCES
TUBULAR SHEATH Ø 15 cm	1 kg (env. 5.1 m)	TVE 015
TUBULAR SHEATH Ø 20 cm	1 kg (env. 3.8 m)	TVE 020

> LAMINATION

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, size 2	102 x 5 x 15 cm	Pack of 20	PVA 015
PVA bag, size 3	102 x 5 x 20 cm	Pack of 20	PVA 020
PVA bag, size 4	102 x 5 x 25 cm	Pack of 20	PVA 025
PVA bag, size 5	102 x 5 x 30 cm	Pack of 20	PVA 030
PVA bag, size 6	102 x 5 x 35 cm	Pack of 20	PVA 035

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	REFERENCES
Non-woven felt	sheet 2m x 1.5m	FEU 001

LYCRA TUBES

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

NAME	PACKAGING	REFERENCES
Lycra tube	pack of 50	LYT 001
Black lycra tube	pack of 50	LYT N01

ACCESSORIES FOR SILICONE LINER

LYCRA COVERS

Lycra covers for the recovery of silicone liners. These covers are with flat stitched. Available in 3 sizes and two lengths.

APPLICATIONS in Prosthetics and Orthotics

Silicone custom made liners.

NAME	PACKAGING	REFERENCES
LYCRA COVERS	pack of 5	HOU 002, 003, 004
LYCRA COVERS LONG	pack of 5	HOU 02L, 03L, 04L

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	REFERENCES
LYCRA fabric, flesh	2 m x 1,5 m	LYC C01

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.

NAME	PACKAGING	REFERENCES
Distal attachment Ø 40 mm	per unit	ATA F01
Distal attachment Ø 50 mm	per unit	ATA F02
Distal attachment Ø 60 mm	per unit	ATA F03
Distal attachment Ø 70 mm	per unit	ATA F04
Distal attachment Ø 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 is1/1.

NAME	PACKAGING	REFERENCES
Cartridge & accessories 2x200mL	pack of 5	CAR 400
Pneumatic two part gun 2x200mL	per unit	PIS CP400
Manual two part gun 2x200mL	per unit	PIS C400
Mixing tools(18 elements)	pack of 20	EMB 818
Mixing tools (24 elements)	pack of 20	EMB 824

> 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, WITH 600 ML GRAVITY FEED PAINT CUP	per unit	PIS E01
600 ML GRAVITY FEED PAINT CUP	per unit	GOD 004

> SILICONE CASTING

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	CONDITIONNEMENTS	RÉFÉRENCES
SILIJET - CASTING MACHINE		SIL MC
MIXING TIPS SILIJET	pack of 20	EMB 924

TECHNICAL PRODUCTS

> COLORING AGENTS

COLOURING PASTES

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.

	NAMES	PACKAGING	REFERENCES
	COLOURING AGENTS FOR PU AND ACRYLIC		
	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	PU V01
	yellow	250 g	CPU J01
	orange	250 g	CPU O01
	blue	250 g	CPU B01
	COLOURING AGENTS FOR RTV SILICONE		
	flesh	250, 500 g	CSI C01, CSI C02
	dark flesh	250, 500 g	CSI CF1, CSI CF2
	black	250, 500 g	CSI N01, CSI, N02
	white	250, 500 g	CSI BL1, CSI BL2
	red	250, 500 g	CSI R01, CSI R02
	green	250, 500 g	CSI V01, CSI V02
	yellow	250, 500 g	CSI J01, CSI J02
	blue	250, 500 g	CSI B01, CSI B02
	COLOURING AGENTS FOR HTV SILICONE		
	flesh	50 g, 1 Kg	CSH C50, CSH C01
	dark flesh	50 g, 1 Kg	CSH CF50, CSH CF01
	black	50 g, 1 Kg	CSH N50, CSH N01
	white	50 g, 1 Kg	CSH BL50, CSH BL01
	red	50 g, 1 Kg	CSH R50, CSH R01
	yellow	50 g, 1 Kg	CSH J50, CSH J01
	blue	50 g, 1 Kg	CSH B50, CSH B01
	COLOURING AGENTS FOR LATEX		
	red	500 g	COX R02
	blue	500 g	COX B02

> RELEASING AGENTS

RELEASING 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
Releasing agent spray	500 ml aerosol	ISA 001

RELEASING 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.

NAME	PACKAGING	REFERENCES
PU GREASE	500 ml - 5, 50 l	GPU 001, 005, 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.

NAME	PACKAGING	REFERENCES
RELEASING AGENT P109-V2	1, 5, 56 l	DEP-II 001, 005, 056

> RELEASING AGENT

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.

NAME	PACKAGING	REFERENCES
RELEASING AGENT P232-V2	1, 5, 56 l	ICI-II 001, 005, 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 - 5, 54 l	VAS 001, 005, 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 aldready 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
Releasing agent Z 400-V2	1, 5, 56 L	DEZ-II 001, 005, 056

TALC CODEX

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

NAME	PACKAGING	REFERENCES
TALC CODEX	500 ml - 5 l - 30 l	TAL 001, 002, 030

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
Liquid latex	2, 5 l - 200 kg	ILX 002, 005, 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 - 1 l - 5 l	IPL 500, 001, 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.

NAME	PACKAGING	REFERENCES
BLACKGLUE 01 50 ml two-component cartridge	1 unit	BG01 C501
Static mixer for 50ml cartridge	3 units	EMBC50 003
Static mixer for 50ml cartridge	36 units	EMBC50 036
Static mixer for 50ml cartridge	144 units	EMBC50 144
Manual dispensing gun	1 unit	PISC50 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.

NAME	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.

NAME	PACKAGING	REFERENCES
Contact glue in spray	500 ml aerosol	CPA 001

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

Workshop sheet

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

ADHESION PRIMER PM82
for Silicone

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.

NAME	PACKAGING	REFERENCES
SILICONE SOFTENING AGENT	2, 5, 25 kg l	CNF-50 002, 005, 025

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, 5, 60, 200 l	ACE 001, 005, 060, 200

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, 5, 60, 200 l	ALC 001, 005, 060, 200

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
SOLVENT S1	1, 5, 60, 200 l	SVS 001, 005, 060, 200

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
SOLVENT S3	1, 5 l	SVS3 001, 004

MEASURING & MIXING

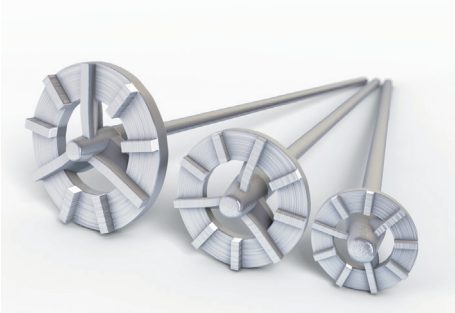
SCALES

- 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

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
Pots 50 cl	pack of 50	POT 102
Pots 100 cl	pack of 50	POT 101
Buckets 2.8, 5, 17, 30 l	pack of 5	SDM 001, 002, 003, 004

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
SUIT, size L	per unit	COM 001
SUIT, size XL	per unit	COM 002
SUIT, size XXL	per unit	COM 003

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 MASKS	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 MASK	per unit	MAS 002

PROTECTION GLASSES

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

NAME	PACKAGING	REFERENCES
PROTECTION GLASSES	per unit	LUN 001

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