



PLASTIFORM[®], high precision replicating material for the industry.

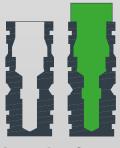
Discover the PLASTIFORM® products that allow to control precisely unattainable or hard to access surfaces, too large, too heavy or too fragile to be handled parts, thanks to impression taking.



Internal forms



External forms



Complex forms



DESCRIPTION

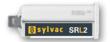
PLASTIFORM® products are made up of two components that solidify upon contact (mixing ratio 1:1). While curing, they imitate all details of the surface on which they are applied with a very high precision: dimensions, forms, texture, surface finish...

The products exist in different versions and consistencies:

- Liquid products (SRL)
- Cement product (SRC)
- Dough products (SRD)

They allow to obtain flexible, semi-flexible, rigid, or semi-rigid impressions.



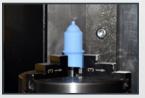




APPLICATIONS

PLASTIFORM® products allow to perform:

- Internal complex forms control
- Internal simple forms control
- External complex forms control
- External simple forms control
- Roughness control Ra
- Visual surface finish control
- Protection, masking, seal
- Fix, clamp, add strength to parts









DIMENSIONAL IMPRESSION

The PLASTIFORM® polymer compounds have unique technical features :

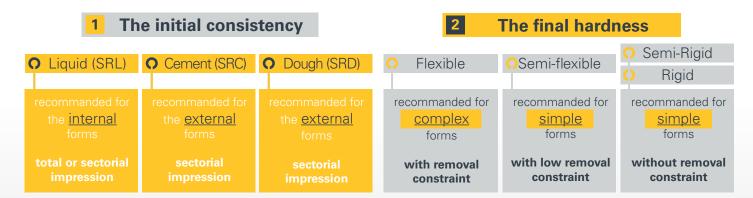
- Virtually no shrinkage
- Micron accuracy
- Shape-retention memory
- No adhesion, no residue
- Environmentally friendly
- Dimensional stability
- Resistance



MAIN CHARACTERISTICS

Each PLASTIFORM® has two main characteristics:

- The initial consistency 1
- The final hardness



This wide range of products enables PLASTIFORM® to provide solutions for a lot of different applications. According to your needs, you may choose a PLASTIFORM® with the suitable initial consistency and final hardness.

REMOVAL CONSTRAINT

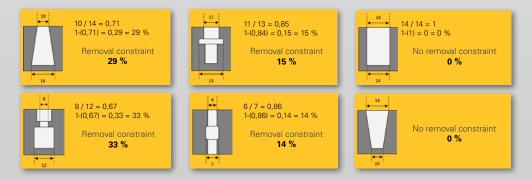
When making a replica casting, some internal complex forms can make it difficult to remove the impression from the mould: groove, thread, undercuts, internal angle. It is called a removal constraint (or backdraft).

It's calculated with the following formula:



When this percentage is higher than 0%, you have to choose a flexible or semi-flexible product, that can be misshaped during its removal. When this percentage is 0%, there is no removal constraint. You can use a Semi-Rigid or Rigid product.

Examples:





HOW TO CHOOSE YOUR PLASTIFORM®

The choice of the appropriate PLASTIFORM® is usually made on the Initial Consistency - Final hardness combination.

CHOOSE THE INITIAL CONSISTENCY

Liquid products

With a liquid consistency, these products are «self-placing» and can be poured easily, even in very small details (thread, small bore...). They are recommended for internal total impressions, and for applications requiring flowing material.



SRL2

SRL3 V

SRL5

SRI8

Cement products

Non-flowing, these products are used for sectorial impressions (internal or external), and can be applied on vertical or overhead surfaces.



SRC3

SRC8 Ra

SRC10

Technical dough products

With a «modeling clay» consistency, these products are mixed and applied by hand, to create external or internal sectorial impressions.



SRD6

SRD7

SRD9

Re-Form

Small rigid balls to heat, these products produce very rigid impression. The resin is reusable at will.







HOW TO CHOOSE YOUR PLASTIFORM®

CHOOSETHE FINAL HARDNESS

Flexible impressions

They accept a strong removal constraint ¹⁾ (up to 40%). The impression can be misshaped and stretched to be removed from its mould, then it will nevertheless invariably return to its original shape.



How to control the impression:

Non-Contact Measurement (optical control, profile projector, laser scan...)



SRI 2

SRL3 V

SRC3

1) When making a replica casting, some internal complex forms can make it difficult to remove the impression from the mould: groove, thread, undercuts, internal angle. It is called a removal constraint (see details on page 3.)

Semi-flexible impressions

They accept a low removal constraint (up to 20%). The impression can be slightly misshaped to be removed from its mould, and return to its original shape.



How to control the impression:

Non-Contact Measurement (optical control, profile projector, laser scan...) with the help of the Twin Blade Cutter.



SRL5

SRD6

SRD7

Semi-rigid and rigid impressions

They do not accept any removal constraint, because of their rigidity.



How to control the impression:

Contact or Non-Contact Measurement (caliper, micrometer, optical control, profile projector, laser scan...).



SRL8

SRC8 Ra

SRC10

SRD9





Part control with SCAN



DIMENSIONAL CONTROL

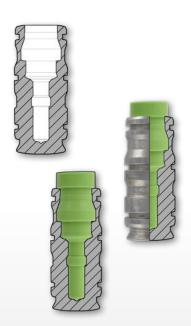
INTERNAL COMPLEX FORMS

With some of the PLASTIFORM® products, it is now possible to easily inspect and measure internal complex features (thread, thread root, groove, radius...), by creating an internal complete impression.

It is recommended to choose a PLASTIFORM® combining the following characteristics :

- Liquid initial consistency
 These self-placing compounds will completely fill the internal form of the part, even the finest details.
- Flexible or semi-flexible final hardness
 The replica can be misshaped to be easily removed from the mould.

SRL2



INTERNAL SIMPLE FORMS

When no undercuts or complex shapes are present inside the part (no removal constraint), it is possible to choose a more rigid product, as the impression does not have to be misshaped to be removed.

It is recommended to choose a PLASTIFORM® combining the following characteristics :

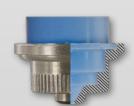
- Liquid initial consistency
 These self-placing compounds will completely fill the internal form of the part.
- Semi-flexible, semi-rigid or rigid final hardness
 Easier to measure than soft impressions, especially because they can be «sliced» using the Twin Blade Cutter.



SRL8

PLASTIFORM® makes it simple to control inaccessible or hard-to-reach internal features, and prevents destructive testings.







DIMENSIONAL CONTROL

EXTERNAL COMPLEX FORMS

PLASTIFORM® has developed less liquid products, more suitable for taking a sectorial replica cast of external complex forms (T-slots, grooves, notches...).

It is recommended to choose a PLASTIFORM® combining the following characteristics :

- Cement or dough initial consistency
 They do not flow, and can be applied easily on vertical or overhead surfaces.
- Flexible or semi-flexible final hardness
 The replica can be misshaped to be easily removed from the mould.

Thanks to the PLASTIFORM® Twin Blade Cutter, it is possible to create a cross section of the impression to control the features, for example with an optical machine Sylvac-Visio.



SRC3



When no undercuts or complex shapes are present in the part (very low removal constraint), it is possible to choose a more rigid product, as the impression does not have to be misshaped to be removed.

It is recommended to choose a PLASTIFORM® combining the following characteristics :

- Cement or dough initial consistency
 They do not flow, and can be applied easily on vertical or overhead surfaces.
- Semi-rigid or rigid final hardness
 Easier to measure than soft impressions, especially because they can be «sliced» using the Twin Blade Cutter.

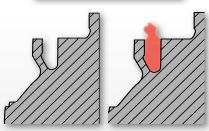


SRC10

SRD7

SRD9









ROUGHNESS CONTROL Ra

INDIRECT CONTROL OF THE Ra

Some rigid products in the PLASTIFORM® range can be used for Indirect Roughness Control Ra.

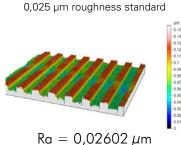
When the surface Ra is $\geq 0.4 \mu m$, the roughness can be measured directly on the cast using a surface meter, and the result is faithful to the original.

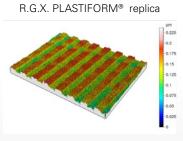
For a lower roughness, other inspection methods can be used, including laser metrology and interferometry.

Impossible to reach features are no longer a problem, thanks to PLASTIFORM® impressions, which guarantees a virtually identical replica.

SRC8 Ra

2) Test conducted by the CETIM metrology laboratory, Nantes (F)





 $Ra = 0.02635 \, \mu m^2$

VISUAL SURFACE FINISH CONTROL

VISUAL SURFACE FINISH CONTROL

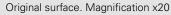
The SRL3V has been specially developed for visual surface finish inspection.

Used by mould makers and polishers, the product accurately imitates all details, surface defects (tool marks, damages, fractures, pitting, striations...) and surface shape (flatness, waviness, curvature...).

The shiny black colour and the material properties ensure higher quality images, which are easier to visually inspect than the original surface.

This process is also used for controlling inaccessible areas.

SRL3 V





Replica. Magnification x20





PROTECTION - MASKING - SEAL

CREATE CUSTOM PROTECTIONS

PLASTIFORM® products can be used to protect or mask certain areas of a part during surface treatment, including:

Custom seal





Sandblasing

- Painting
- Chemical and heat treatment
- Polishing
- Coating process: anodizing, chrome plasting...

Custom protection cap





Because the casts are very durable and resistant, they can be re-used several times without being affected. Once cured, the PLASTIFORM® is impervious to most liquids. It can therefore be used to create custom-made seals.

SRL2

SRL5

FIX - CLAMP - STRENGTH TO PARTS

Custom-made fixation







CREATE A CUSTOM CLAMPING SYSTEM

Positioning and clamping a fragile or complex part are two basic operations in most manufacturing industries.

Some PLASTIFORM® products, and more particularly the Re-FORM (infinitely re-usable thermoforming resin), enable these to be achieved easily and efficiently, by providing alternative solutions.

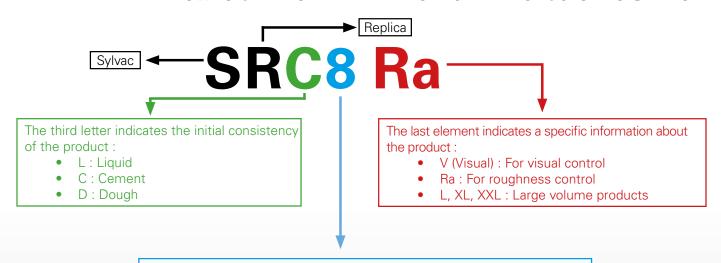
- Create a custom-made fixing platform
- Protect a part from clamping jaws
- Add strength to a fragile part

SRD7

SRF



HOW TO UNDERSTAND THE PLASTIFORM® PRODUCTS DESIGNATION



The number indicates the final consistency in hardness shore A (add a «0» after the number) :

• from 20 to 40 : Flexible

• from 50 to 70 : Semi-Flexible

• from 80 to 100 : Semi-Rigid to rigid

Examples:

SRL2: Liquid product, print 20 shore A (flexible)

SRC8 Ra: Pasty product (cement), print 80 shore A (semi-rigid), adapted for roughness control Ra

SRD7: Putty product (dough), print 70 shore A (semi-flexible)

LIQUID PRODUCTS (SRL)

Туре	Reference	Color	Description						
SRL2	928-2001		2 Cartridges 50ml + 12 Standard Nozzles + 3 Tips						
ShLZ	928-2002		8 Cartridges 50ml + 48 Standard Nozzles + 6 Tips						
SRL3V	928-2005		2 Cartridges 50ml + 12 Standard Nozzles + 3 Tips						
Visual	928-2006		8 Cartridges 50ml + 48 Standard Nozzles + 6 Tips						
SRL5	928-2101		2 Cartridges 50ml + 12 Standard Nozzles + 3 Tips						
ShLo	928-2102		8 Cartridges 50ml + 48 Standard Nozzles + 6 Tips						
SRL8	928-2105		2 Cartridges 50ml + 12 Standard Nozzles + 3 Tips						
ShLo	928-2106		8 Cartridges 50ml + 48 Standard Nozzles + 6 Tips						





CEMENT PRODUCTS (SRC)







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Туре	Reference	Color	Description
CDC2	928-2109		2 Cartridges 50ml + 12 Standard Nozzles + 3 Tips
SRC3	928-2110		8 Cartridges 50ml + 48 Standard Nozzles + 6 Tips
SRC8	928-2113		2 Cartridges 50ml + 12 Standard Nozzles + 3 Tips
Ra	928-2114		8 Cartridges 50ml + 48 Standard Nozzles + 6 Tips
CDC10	928-2111		2 Cartridges 50ml + 12 Standard Nozzles + 3 Tips
SRC10	928-2112		8 Cartridges 50ml + 48 Standard Nozzles + 6 Tips

DOUGH PRODUCTS (SRD)







Туре	Reference	Color	Description				
CDDe	928-7003		Pack of boxes 900ml (2x450ml)				
SRD6	928-7004		Small boxes 90ml (2x45ml)				
SRD7	928-7005		Pack of boxes 900ml (2x450ml)				
SND7	928-7006		Small boxes 90ml (2x45ml)				
SRD9	928-7007		Pack of boxes 900ml (2x450ml)				
2409	928-7008		Small boxes 90ml (2x45ml)				

LARGE VOLUMES CARTRIDGES (SRL L, XL & XXL)







Туре	Reference	Color	Description
SRL2 L	928-3001		1 Cartridge 400ml + 10 Quadro Nozzles
SRL2 XL	928-8001		1 Can 1.7l (2x 850ml)
SRL2 XXL	928-8002		1 Can 10.2l (2x 5.1l)
SRL5 L	928-3003		1 Cartridge 400ml + 10 Quadro Nozzles
SRL5 XL	928-8005		1 Can 1.7l (2x 850ml)
SRL5 XXL	928-8006		1 Can 10.2l (2x 5.1l)
SRL8 L	928-3005		1 Cartridge 400ml + 10 Quadro Nozzles
SRL8 XL	928-8009		1 Can 1.7I (2x 850ml)
SRL8 XXL	928-8010		1 Can 10.2l (2x 5.1l)



RE-FORM PRODUCTS (SRF)

Туре	Reference	Color	Description
SRF	928-4001		1 bag of 500g



LARGE VOLUMES KITS (SRL KXL)

Туре	Reference	Reference Color Description						
Kit SRL2 KXL	928-5001		Kit with 4 Cartridges 400ml + accessories					
Kit SRL5 KXL	928-5002		Kit with 4 Cartridges 400ml + accessories					
Kit SRL8 KXL	928-5004		Kit with 4 Cartridges 400ml + accessories					



COMPLETE KIT

Reference	Description						
928-6006	Special Kit for SCAN and VISIO						



KIT CONTENT 928-6006

1 manual dispensing gun (928-1001)
1 twin blade cutter 60mmx1mm (928-1009)
1 cutting guide for cutter (928-1010)
50 standard mixer injectors
10 standard white nozzle tips
21 rings for mold removal (928-1008)
1 plastin 250g (928-1201)
1 degreaser DN1 400ml (928-1205)
1 Re-form bag (SRF) 50g (928-4001)
2 cartridges SRL2 (928-2001)
2 cartridges SRL5 (928-2101)
2 cartridges SRC3 (928-2109)
1 cartridge SRL8 (928-2105)
1 tube SRD7 2x45ml (928-7006)





PLASTIFORM® ACCESSORIES

DISPENSING GUNS



Reference	Description
928-1001	Manual Dispensing Gun DS53 (for 50 ml cartridges)
928-1002	Pneumatic Dispensing Gun DP50 (for 50 ml cartridges)
928-1207	Manual Dispensing Gun DS 400 (for 400 ml cartridges)
928-1208	Battery Dispensing Gun DB 400 (for 400ml cartridges)
928-1209	Pneumatic Dispensing Gun DS 400 (for 400 ml cartridges)

NOZZLES. TIPS AND RINGS



	NUZZLES, TIPS AND KINGS
Reference	Description
928-1003	Pack of 48 Standard Grey Mixer Injectors for Cartridges 50ml
928-1004	Pack of 96 Standard Grey Mixer Injectors for Cartridges 50ml
928-1005	Pack of 192 Standard Grey Mixer Injectors for Cartridges 50ml
928-1301	Pack of 10 Needle Mixer Injectors for Cartridges 50ml (for liquid products only)
928-1302	Pack of 50 Needle Mixer Injectors for Cartridges 50ml (for liquid products only)
928-1303	Pack of 100 Needle Mixer Injectors for Cartridges 50ml (for liquid products only)
928-1304	Pack of 200 Needle Mixer Injectors for Cartridges 50ml (for liquid products only)
928-1305	Pack of 50 Quadro Mixer Injectors (length 12.2cm) for Cartridges 400ml
928-1306	Pack of 100 Quadro Mixer Injectors (length 12.2cm) for Cartridges 400ml
928-1210	Pack of 10 Large Mixer Injectors for Cartridges 400ml
928-1211	Pack of 50 Large Mixer Injectors for Cartridges 400ml
928-1212	Box of 4 different Fill'in (avoid air bubbles in blind holes)
928-1008	Pack of 21 Rings for mould removal
928-1202	Pack of 20 White Nozzles Tips (for standard grey mixer injectors)
928-1203	Pack of 50 White Nozzles Tips (for standard grey mixer injectors)
928-1201	Plastin - technical plasticine (250g)

CUTTERS AND CLEANERS



928-1212



929	.11	20	ī

	COTTENS AND CLEANENS
Reference	Description
928-1011	Standard Twin Blade Cutter 60mm (1mm space between blades) + Support
928-1101	Special Twin Blade Cutter 60mm (0.5mm space between blades) + Support
928-1102	Special Twin Blade Cutter 60mm (2mm space between blades) + Support
928-1103	Special Twin Blade Cutter 100mm (0.5mm space between blades) + Support
928-1104	Special Twin Blade Cutter 100mm (1mm space between blades) + Support
928-1105	Special Twin Blade Cutter 100mm (2mm space between blades) + Support
928-1106	Special Twin Blade Cutter 200mm (0.5mm space between blades) + Support
928-1107	Special Twin Blade Cutter 200mm (1mm space between blades) + Support
928-1108	Special Twin Blade Cutter 200mm (2mm space between blades) + Support
928-1205	Surface Cleaner DN1 400ml (no air shipment!)
928-1206	Surface Cleaner DN1 1I (no air shipment!)

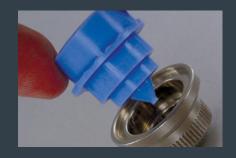


APPLICATIONS

INTERNAL DIMENSIONAL CONTROL







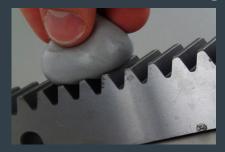
INTERNAL DIMENSIONAL CONTROL

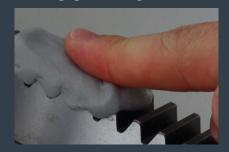






EXTERNAL DIMENSIONAL CONTROL







NON-DESTRUCTIVE CONTROL







CUSTOM PROTECTIVE CAP









APPLICATIONS







ROUGHNESS CONTROL Ra





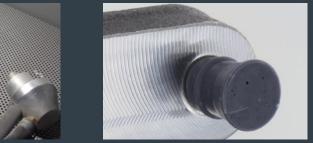






PROTECTION - MASKING - SEAL











PRODUCTS SPECIFICATIONS

LIQUID PRODUCTS (SRL)

Туре	Color	Initial consistency		Final consistency			Application			Drying time	Removal	Cut with		
		L	С	D	F	S-F	S-R	R	I-T	I-P	E-P	at 20°	constraint	cutter ?
SRL2		Х			Х				Х			<u>+</u> 8 minutes	30%	No
SRL3V Visual		Х			Х				Х			±10 minutes	20%	No
SRL5		Χ				Х			Х	Х		<u>+</u> 8 minutes	10%	Yes
SRL8		Х						Х	Х	Х		<u>+</u> 1 minutes	0%	No

CEMENT PRODUCTS (SRC)

Туре	Color	Initial consistency			Final consistency				Application			Drying time	Removal constraint	Cut with cutter ?
		L	С	D	F	S-F	S-R	R	I-T	I-P	E-P	at 20	Constraint	cutter :
SRC3			X		Х					Х	X	±8 minutes	20%	Yes
SRC8 Ra			Х				Х			Х	Х	<u>+</u> 6 minutes	0%	No
SRC10			Х					Х		Х	Х	±1 minutes	0%	No

DOUGH PRODUCTS (SRD)

Туре	Color	Initial consistency			Final consistency				Application			Drying time at 20°	Removal constraint	Cut with cutter ?
		L	С	D	F	S-F	S-R	R	I-T	I-P	E-P	at 20	Constraint	cutter ?
SRD6				Χ		Х				Х	Х	±8 minutes	5%	Yes
SRD7				Χ		X				X	Х	<u>+</u> 4 minutes	5%	Yes
SRD9				Χ				X		X	X	<u>+</u> 8 minutes	0%	No
SRD KV-AD				Χ		Х				Х	Х	<u>+</u> 6 minutes	5%	Yes

RE-FORM (SRF) PRODUCTS

Туре	Color	Initial consistency			Final consistency				Application			Drying time	Removal	Cut with
		L	С	D	F	S-F	S-R	R	I-T	I-P	E-P	at 20	constraint	cutter ?
SFR				X*				Х	Fix - clamp - strength to parts			depends on volume	-	No

^{*}heated at 60°

L = Liquid / C = Cement / D = Dough

F = Flexible / S-F = Semi-Flexible / S-R = Semi-Rigid / R = Rigid

I-T : Total internal impression / I-P : Partial internal impression / E-P : Partial external impression

