

Thanks to PVD coating, Savio completes the range of new finishes, adding processes of anodizing, powder coating and electrolytic zinc coating for which Savio obtained several national and international recognitions.



For those products needing both a functional and decorative coating, when subjected to rubbing wear or used under corrosive conditions.



PVD coating and the environment

Ideal solution for the window and door field, PVD coating is the result of an absolutely ecological technology. It consists in the metal vaporisation in a vacuum chamber: metal vapours settle a film made of very pure nitride of zirconium on the surface of pieces.



Cleaning system



After coating



PVD equipment

PVD technical features

Thanks to sophisticated instruments, PVD coating is not only aesthetically pleasant, but also presents exceptional technical features: PVD coating hardness is **2000, 2500 HV**, against **800 HV** of galvanic chromo surfacing.

The most stringent tests proved that PVD is resistant to solvents and to bleaching: indeed, oxidizing to temperatures higher than **400°C**, colours remain constant with time.

Moreover, the nitride of zirconium is in conformity with **ISO 9227, ASTMB117 and DIN50021** concerning salt spray tests.



SATIN ANODIZED STEEL

The new finish "XSD satin steel" is attainable thanks to many processes. "Polishing" and "sputter cleaning" allow imperfections to be removed. Satinizing is carried out on each piece with the aid of brushes to achieve a dull surface finish, and finally the material is anodized.



ART.	DESCRIPTION	Pcs.
1121 - 1121.1 - 1121.11 - 1121.12	MORSA+ (patented) Two-wing aluminium hinge, nylon bushing, pin, counterplates and 4 pre-assembled countersunk oval head screws M5x10 in stainless steel 430. Renewed version with new indented counterplate. Carrying capacity: 2 hinges 80 Kg., 3 hinges 90 Kg.	20
1122.200 - 1122.201 - 1122.211	MORSA+ (patented) Three-wing pre-assembled hinge in aluminium, nylon bushing, pre-assembled extractable pin, indented plates and 6 pre-assembled countersunk head screws M5x9 in stainless steel 430. Carrying capacity: 2 hinges 90 Kg., 3 hinges Kg. 100.	10
1123 - 1123 D - 1123 S - 1123.11	Like 1121 but for third casement.	20
1124.30/.31/.32/.33/.34/.35/.36	SUMMA (patented) Two-wing adjustable hinge in aluminium, 2 quick clamping counterplates, 4 socket head cap screws M6x12 and 1 grub screw M5x6 in stainless steel, 1 stainless steel 10 mm pin pre-assembled on black galvanized zamak cam bushing device, 2 nylon caps, 1 self-lubricating bushing in nylon, 1 adjustment grub screw in zamak. Carrying capacity: 2 hinges 100 Kg., 3 hinges 120 Kg.	4
1124.50 - 1124.51	SUMMA (patented) Like 1124.30 but for third casement.	4
1145/60	MECHANICA (patented) Two-wing aluminium hinge for third casement, nylon bushing, pin, counterplates and 4 pre-assembled countersunk oval head screws M5x10 in stainless steel 430. Renewed version with new indented counterplate. Carrying capacity: 2 hinges 80 Kg., 3 hinges 90.	4
1145.703/7	MECHANICA (patented) Aluminium spacer of 7 mm with 2 pre-assembled steel bushings and 2 stainless steel special screws M8x38.	10
1145.703/8	MECHANICA (patented) Like 1145.703/7 but with 8,5 mm spacer.	10

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SAVIO
Quality and innovation
for closing systems

- > PVD COATINGS
- > SATIN ANODIZED STEEL

SPECIAL FINISHES

PVD: HIGH QUALITY AND TECHNOLOGY

THE *style* AND *prestige*
OF A *resistive* COATING.



Savio presents "bright gold" and "satin steel" PVD coatings. This is a particular technique that guarantees:

- > very high abrasion resistance
- > colour fastness
- > solvents resistance
- > environmentally friendly
- > high corrosion resistance

New values for aluminum windows and doors

New trends of decoration design are often a throwback to primary and natural materials (stone, wood, metal, etc); they are matched with each other to obtain new formal styles. The steel or the gold of a handle, assembled on an aluminium window or door, create a prestigious "hi-tech" style that contrasts with the "warmth" of a wood floor or with the stone of a fireplace. This is an added aesthetic value that Savio can offer to each door and window fitter in order to differentiate and to increase in value his job; all that, obtained thanks to the new "bright gold" and "satin steel" finishes.

Why PVD?

This recent technology was born to be applied in the aerospace field, but PVD has also been proven to be an optimal finish



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PVD COATINGS



MORSA+	ART.	DESCRIPTION	FINISHES	Pcs.
	1121 1121.1 1121.11	(patented) Two-wing aluminium hinge, nylon bushing, pin, counterplates and 4 pre-assembled countersunk oval head screws M5x10 in stainless steel 430. Renewed version with new indented counterplate. Carrying capacity: 2 hinges 80 Kg, 3 hinges 90 Kg.	PVD H, PVD X	20

	1122.200 1122.201 1122.211	(patented) Three-wing pre-assembled hinge in aluminium, nylon bushing, pre-assembled extractable pin, indented plates and 6 pre-assembled countersunk head screws M5x9 in stainless steel 430. Carrying capacity: 2 hinges 90 Kg., 3 hinges Kg. 100.	PVD H, PVD X	10
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PVD H = "Bright gold" PVD treated PVD X = "Satin steel" PVD treated

MORSA+	ART.	DESCRIPTION	FINISHES	Pcs.
	1123 1123.11	(patented) Two-wing aluminium hinge for third casement, nylon bushing, pin, counterplates and 4 pre-assembled countersunk oval head screws M5x10 in stainless steel 430. Renewed version with new indented counterplate. Carrying capacity: 2 hinges 80 Kg, 3 hinges 90 Kg.	PVD H, PVD X	20

MECHANICA	ART.	DESCRIPTION	FINISHES	Pcs.
	1145/60	(patented) Two-wing adjustable door hinge made of aluminium, distance between centres of 60 mm, centre of rotation 20 mm, step 0 mm, 1 stainless steel pin Ø 11 mm, preassembled on black galvanized zamak cam device bushing, 2 aluminium coverplates, 2 nylon caps, 1 nylon self-lubricating bushing, 1 zamak adjustment grub screw. Carrying capacity: 2 hinges 150 Kg, 3 hinges 180 Kg.	PVD H, PVD X	4
	1145/93	(patented) Like 1145/60 but dist. between centres of 93 mm.	PVD H	4

	1145.703/7	(patented) Aluminium step of 7 mm with 2 preassembled steel bushings and 2 stainless steel special screws M8x38.	PVD H, PVD X	10
	1145.703/8	(patented) Like 1145.703/7 but with 8,5 mm spacer.	PVD H, PVD X	10

PVD H = "Bright gold" PVD treated PVD X = "Satin steel" PVD treated

MANON	ART.	DESCRIPTION	FINISHES	Pcs.
	870.1	(patented) Handle for casement in die-cast metal or brass, dist. between centres 84,5-98 mm, 2 socket head cap screws M5x14 in black galvanized steel.	PVD H, PVD X	5
	870.2	(patented) Like 870.1 but with dist. Between centres 92-104 mm.		
	873.1	(patented) Like 870.1 but for tilt and turn.	PVD H, PVD X	5
	873.2	(patented) Like 873.1 but with dist. between centres 92-104 mm.		

	874.31	(patented) Double door handle in die-cast metal, with return spring, 4 screws TC Ø 4,2x19 in galvanized steel.	PVD H, PVD X	4
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TURANDOT	ART.	DESCRIPTION	FINISHES	Pcs.
	879/.2	(patented) Handle in die-cast metal for shutters, for external and internal openings, distance between centres 104-108 mm, 2 subscrew plates, 2 socket head cap screws M4x10 and 2 M4 nuts in galvanized steel.	PVD H, PVD X	5
	879.3	(patented) Like 879/.2 but with flat handle.		
	879.751	(patented) Like 879/.2 but with with safety lock and 1 key.		

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PVD COATINGS

RIBANTA 4	ART.	DESCRIPTION	FINISHES	Pcs.
	3000.739	Non-handed hinge Kit for RIBANTA 4.	PVD H, PVD X	5

RIBANTATRE + RIBANTATRE 150	ART.	DESCRIPTION	FINISHES	Pcs.
	3100.701	(patented) Clamp-hinge kit for RIBANTATRE 150 in zamak, aluminium and stainless steel 430, 4 screws TS Ø 4,2x13, 4 screws TS M5x8, 2 screws TS M5x12, 2 screws TS M5x16 in stainless steel 304.	PVD H, PVD X	5
	1246.735	(patented) Like 3100.701 but for RIBANTATRE R40 and with 2 screws TS M5x 27 (instead of TS M5x16)	PVD H, PVD X	5

PVD H = "Bright gold" PVD treated PVD X = "Satin steel" PVD treated

