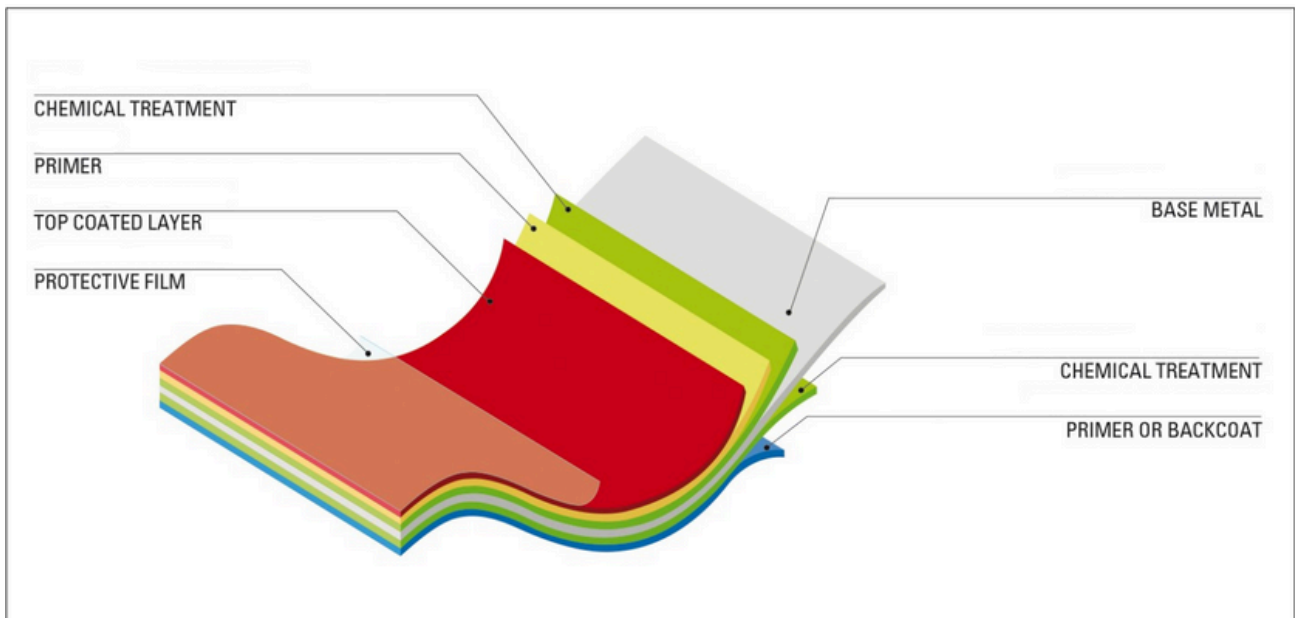




TECHNICAL FEATURES

CAP VER

Polyester



Introduction

CAP VER is made up of a pre-coated metal support with several layers of paint. It has been conceived for the construction and industry in general, has excellent aesthetic features and good processability. Its surface is defect free and can have different degrees of gloss depending on various needs. A wide colour range is available on stock and we can also manufacture colours according to the customer's specific samples.

<u>Furniture</u>	for shelves, metal storage cabinets, dental clinic furniture, vending machines
<u>Building</u>	civil, industrial, metal roofing
<u>Household appliances</u>	for washing machines, dishwashers
<u>Kitchens</u>	kitchen sides, front panels and doors for ovens
<u>Building Industry</u>	for panels, partition walls, armoured doors, false ceilings, lighting
<u>Cold Appliances</u>	for freezers, fridges, mini coolers
<u>Refrigeration industry</u>	cold storage, pharmacy refrigerators
<u>Heating</u>	for boilers, water heaters, air conditioners, convector heaters

METALLIC SUBSTRATES

HDC steel
Cold-rolled steel
Electrogalvanized steel
Aluminium
Stainless steel (indoor use)

SIZES

Substrate thickness	From 0.30 to 2.0mm.
Substrate aluminium th.	From 0.5 to 2.0mm.
Max. coil size Min. coil size	1500 mm
Coil ID Max. strip width	700 mm.
Min. strip width	500 mm.
Max. sheets size	1500 mm.
	19 mm.
	1500 x 6000 mm

minimum thickness x sheet cutting process 0.45mm

COATING OF UPPER FACE

	20-30 µ organic coating (depending on the colour)
	Self-sticking peeling protective film (to be removed not later than 6 months after Varcolor's manufacturing date. In the absence of a protective film, the customer assumes the responsibility for any pressure marks and small defects arising from your production process. The suitability of the protective film for its production process / finished product must be confirmed by the customer through specific tests

WAREHOUSING AND PROCESSING CAP VER

D.1	Coils or pallets of precoated materials should be stored under a roof and in places not subject to big changes of temperature in order to avoid the possibility of condensation.
D.2	Materials protected with peeling film for temporary protection must be placed far away from heat/humidity sources and not exposed to direct solar rays. The protective peeling film should anyway be removed within and not later than 6 months from mill's manufacturing date.
D.3	During transport the material must be protected from moisture and condensation. It must be loaded on vehicles in such a way as to ensure protection from collisions, abrasions and overturning.
L.1	Precoated materials should be preferably utilized (within six months from reception) and using appropriate machines to avoid abrasions, scratch, cuts, marks on the film surface and/or cracks of the same or even of the zinc layer.
L.2	During rollforming or bending it is necessary that the tools should contemplate not only the thickness of the material itself but also the possible tolerances so as to avoid relaminations.
L.3	As far as flatness of strips and coils is concerned, please do refer to what mentioned in UNI EN 10143.
L.4	The ideal temperature at which materials must be formed or bent or punched should be around 18° C.

		BACKSIDE COATING	
			3-5 micron thick primer, suitable for foaming/gluing with PUR or glues (all foaming/gluing tests have to be performed by the customer and are on his behalf)
		On request:	Coloured backing-coat 10-12 micron (+/- 2 micr.)

GENERAL FEATURES		Test norms	Test results
CG.1	Coating thickness	UNI EN 13523-1	20-30 μ organic coating
CG.2	Solid Colour	UNI EN 13523-3	BEIGE : DE MAX 1 BLACK: DE MAX 1,50 BLUE : DE MAX 1,50 BROWN : DE MAX 1,50 GREY : DE MAX 1,50 GREEN :DE MAX 1 MET : only visual check for paint uniformity ORANGE : DE MAX 2 RED : DE MAX 2 VIOLET : DE MAX 1,50 WHITE : DE MAX 1 YELLOW : DE MAX 2

CG.3	Gloss level	UNI EN 13523-2	Range gloss	
			≤ 10	matt
			>10 ≤ 20	low gloss
			>20 ≤ 40	satin
			>40 ≤ 60	semi-gloss
			>60 <80	gloss
CG.4	Maximum temperature range for end use	-20 °C + 80 °C	≥ 80	high-gloss
			No remarkable variations	

MECHANICAL FEATURES		Test standards	Test results
CM.1	Adhesion after drawing 6 mm	UNI EN 13523-6	Good
CM.2	Adhesion after cupping	UNI EN 13523-7	≥1 T
CM.3	Pencil hardness	UNI EN 13523-4	F - H
CM.4	Resistance to cracking on bending (T-bend test)	UNI EN 13523-7	
	All products		≥3 T free of cracks (*) in the case of an aluminum support it depends on the type of alloy and the thickness of the support.
CM.5	Surface scratch resistance	UNI EN 13523-16	Weight loss 30-35 square mm

Polyester			
CM.6	Resistance to rapid deformation (impact test)	UNI EN 13523-5	16 J no visible cracks magnified 10x

*In order to avoid possible problems of colour consistency while manufacturing a single order, it is advisable not to use coils coming from different batches.

The information contained in this technical data sheet come from our experience as well as that of many customers of ours.; they're circulated only as a technical support but don't involve any guarantee or implied liability. The user himself undertakes the responsibility about the utilization of the product, keeping in account its feature according to his purpose. The mill reserves the right of modifying the information contained herein without notice.

CHEMICAL-PHYSICAL FEATURES		Test standards	Test results
CCF.1	Resistance to fluorescent UV light and water condensation	UNI EN 13523-10	2000 h UVA 340 Residual gloss > 30% of the initial level UV resistance category RUV 2
CCF.2	Water resistance	UNI EN 13523-9	No loss of adhesion or blistering
CCF.3	Corrosion Resistance	UNI EN 13523-8	
	Hot-dip galvanised steel		360 h creepage max 2 mm no blisters
	Electro-galvanised steel		360 h creepage max 2 mm no blisters
	Cold-rolled steel		190 h creepage max 2 mm no blisters
	Stainless Steel A304 2B **		1000 h without penetration
	Stainless Steel A430 2B **		360 h creepage max 2 mm no blisters
	Aluminium ***		1000 h without penetration
CCF.4	Resistance at 100% relative humidity	UNI EN 13523-26	
	Hot Dipped galvanised steel		750 h no blisters
	Electro-galvanised steel		750 h no blisters
	Cold-rolled steel A304 2B **		500 h no blisters
	Stainless Steel A430 2B **		1.500 h no blisters
	Stainless Steel		1.500 h no blisters
	Aluminium ***		1.000 h no blisters

*** The test results refer to qualities of the aluminium defined by the mill. In case the material is supplied by the customer, tests must be agreed upon

CERTIFICATIONS		Test norms	Test results
CER.1	Reaction to fire classification for building products	EN 13501-	Classification A1

CER.2	Marine Equipment Certification according to European MED Directive	European Directive 2014/90/EU	Certificate MED B and MED D (*) depending on the type of paint
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CLEANING INSTRUCTIONS FOR VAR VER COATINGS			
P.1	General rules		
	In order to clean the surface please use only water and neutral soap. It's advisable to use a soft cloth, rinsing and drying up the surface with care. Please avoid using cleaning agents containing abrasive particles		
P.2	Removal of small stains		
	Surface stains can be removed using mineral turpentine or denatured alcohol.		

Production range :

Cold rolled steel Electrogalvanized steel HDG steel		Thickness (mm)										
		0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.5	2.0
Width (mm)	700/800	●	●	●	●	●	●	●	●	●	●	●
	800/900	●	●	●	●	●	●	●	●	●	●	●
	900/1000	●	●	●	●	●	●	●	●	●	●	●
	1000/1100	●	●	●	●	●	●	●	●	●	●	●
	1100/1200	●	●	●	●	●	●	●	●	●	●	●
	1200/1300	●	●	●	●	●	●	●	●	●	●	
	1300/1400		●	●	●	●	●	●	●	●		
	1400/1500		●	●	●	●	●	●	●	●		
Stainless steel		Thickness (mm)										
		0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.5	2.0
Width (mm)	700/800		●	●	●	●	●	●	●	●	●	
	800/900		●	●	●	●	●	●	●	●	●	
	900/1000		●	●	●	●	●	●	●	●	●	
	1000/1100		●	●	●	●	●	●	●	●	●	
	1100/1200		●	●	●	●	●	●	●	●	●	
	1200/1300		●	●	●	●	●	●	●	●		
	1300/1400			●	●	●	●	●	●	●		
	1400/1500			●	●	●	●					
Aluminium		Thickness(mm)										
		0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.5	2.0
Width (mm)	700/800			●	●	●	●	●	●	●	●	●
	800/900			●	●	●	●	●	●	●	●	●
	900/1000			●	●	●	●	●	●	●	●	●
	1000/1100			●	●	●	●	●	●	●	●	●
	1100/1200			●	●	●	●	●	●	●	●	●
	1200/1300			●	●	●	●	●	●	●		
	1300/1400				●	●	●	●	●	●		
	1400/1500				●	●	●	●	●	●		



Technical features
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If the processing carried out does not comply with the parameters indicated, the customer assumes responsibility for the processing carried out.

Acceptance

Date

Company stamp :

Name and signature of the authorised
person :