

INDUSTRIAL FABRICS – SECTION THREE

ARCHITECTURAL FABRICS



E4 July 2011

Nolan.UDA

Sydney: (02) 9669 3333 • Newcastle: (02) 4957 7766
Melbourne: (03) 9545 5588 • Brisbane: (07) 3387 8500
Adelaide: (08) 8260 1055 • Perth: (08) 9376 2666
Darwin: (08) 8981 1555

www.NolanUDA.com.au

ARCHITECTURAL FABRICS



The 'COVER' range of PVC coated polyester fabrics are designed for use in tensioned structures, where the fabric forms an integral part of the support system. The fabrics are engineered and manufactured in Italy by Nazil and classified according to 'type' as defined by European design codes and fully comply with each specification required. Bi-axial test data for each type is available for use in CAD systems.

Although minimum quantities apply, additional non-standard options are available to designers. These include a choice of lacquered finishes (*see specifier guide below*), anti-wicking scrim, opaque or translucent properties and the patented Coibentato (insulation) cladding which has significant benefits in climate control.



KEY PRODUCT FEATURES



- ✓ *Made in Italy*
- ✓ *Lacquered finishes*
- ✓ *Dimensionally stable*
- ✓ *High resistance to soiling*
- ✓ *High tear & tensile strength*
- ✓ *UV stabilised*
- ✓ *Mildew resistant*
- ✓ *Fire retardant*
- ✓ *Supported with comprehensive warranties*

SPECIFIER GUIDE

Lacquer finishes to coated fabrics

'Cover' structural fabrics are available in the choice of three lacquered finishes. All of which are designed to protect and insulate the PVC coating from damaging UV radiation and improve cleanability. Each finish has varying degrees of effectiveness and weldability.

A pure PVDF lacquer is a stable and proven performer. It has a high resistance to chemical attack, UV and gamma radiation and excellent mechanical properties in tension and deflection. However PVDF fabrics cannot be welded together without physically removing the coating at the joins which result in fractured protection. A blend of acrylic and PVDF solves this problem, but at the expense of performance which is reflected in the duration of the warranty offered. PVDF fabrics have a 10 year warranty where as acrylic/PVDF blends have a 6 year warranty.

The fully weldable TiO₂ (TITAN W) lacquer is a revolutionary new finish. Research has shown that under the action of UV light, TiO₂ has strong oxidative decomposition powers, thus exhibiting anti-fouling, anti-microbial and deodorising properties. It also becomes super-hydrophilic, forcing dirt on the surface to dislodge. Thus, the net outcome of a TiO₂ lacquer is UV protection and a remarkable self cleaning effect. Naizil textiles with the TITAN W lacquer are supported with a 10 year warranty.

PRODUCT DETAILS

PS 680

PS 680 is an Italian made fabric designed to combine performance with style. The technical performance is outstanding with exceptional tensile strength and dimensional stability. The 28 colour pallet is complimented with 4 metallic finishes and an opaque block-out meaning designers are only limited by their imagination. Typical applications include small to medium structures, shade sails, building facades and awnings.

Dimensions: Width: 250cm Length: 65m

Colours available:



Specifications

Type of Basic Fabric	High Tenacity Polyester
Yarn Size	1100dtex
Total Weight	Std: 680gsm B/O: 720gsm
Fabric Thickness	Std: 0.52mm B/O: 0.55mm
Tensile Strength (warp & weft)	2800N/5cm
Tear Strength (warp & weft)	220N
Cold Resistance	-30°C
Heat Resistance	+70°C
Flame Retardancy	Yes*
Adhesion	40N/2cm
Lacquer	Acrylic both sides

*FR certificates available on request

Colour	410 White	683 Cream	414 Vanilla		
Part #	13PS 250 WHI	13PS 250 CRE	13PS 250 VAN		
Colour	419 Latte	420 Lemon	411 Butter		
Part #	13PS 250 LAT	13PS 250 LEM	13PS 250 BUT		
Colour	421 Tangerine	422 Flame	629 Magenta		
Part #	13PS 250 TAN	13PS 250 FLA	13PS 250 MAG		
Colour	409 Lavender	412 Sky	413 Sapphire	261 Ink	425 Royal
Part #	13PS 250 LAV	13PS 250 SKY	13PS 250 SAP	13PS 250 INK	13PS 250 ROY
Colour	262 Indigo	431 Midnight	265 Forest	432 Emerald	424 Peacock
Part #	13PS 250 IND	13PS 250 MID	13PS 250 FOR	13PS 250 EME	13PS 250 PEA
Colour	426 Kiwi	408 Lime	415 Ash	423 Zinc	263 Pewter
Part #	13PS 250 KIW	13PS 250 LIM	13PS 250 ASH	13PS 250 ZIN	13PS 250 PEW
Colour	416 Platinum	417 Smoke	418 Carob	427 Black	Block-Out
Part #	13PS 250 PLA	13PS 250 SMO	13PS 250 CAR	13PS 250 BLA	13PS 250 BO
Colour	084 Silver	237 Gold	238 Bronze	218 Opal	
Part #	13PS 250 SIL	13PS 250 GOL	13PS 250 BRO	13PS 250 OPA	

PRODUCT DETAILS

Type 1: SPORT COVER

Sport Cover is one of the most popular Type 1 architectural fabrics in the world. Proven and trusted for decades, this fabric will suit most medium size structures. It features the market leading TITAN W lacquer for ease of maintenance and peace of mind.



Dimensions:

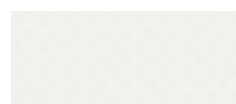
Width: 250cm Length: 50m



Colour	410 White	136 Ivory
Part #	13SPO 250 WHI	13SPO 250 IVO

Type 2: BIG COVER

If you're looking for a high specification architectural fabric, look no further than Big Cover. This Type 2 heavy duty fabric features a high tenacity panama weave and is finished with the superior TITAN W lacquer. Designed to withstand incredible loads, Big Cover can be used with complete confidence.



Colour: 410 White

Part # 13BIG 250 WHI

Dimensions: Width: 250cm Length: 50m

INDENT FABRICS

Type 3: PLUS COVER



Type 4: STRONG COVER



Type 5: EXTRA COVER



Detailed product specifications for Type 1-5 fabrics are listed on the following page

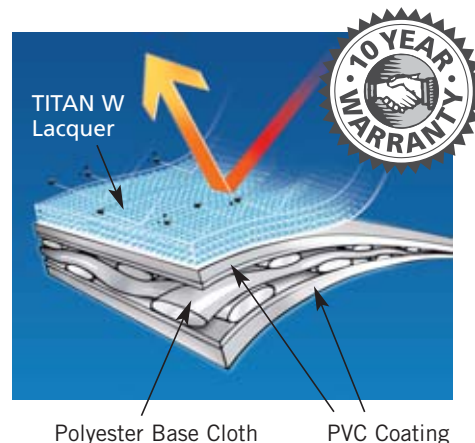


TITAN W is a surface coating that has been developed in conjunction with some of the worlds leading chemical engineers.

TITAN W is the latest generation of lacquering used in Architectural fabrics. It makes the most of innovative nanotechnologies, combining special particles of titanium dioxide (TiO₂) with fluoro polymers. The effectiveness of TITAN W versus Acrylic and PVDF coatings has been proven countless times through both accelerated weathering tests and general exposure to the elements.

Fabrics coated with TITAN W provide 3 major benefits;

- Through its sophisticated protection system, physical properties and performance are maintained over long periods of time.
- TITAN W provides a state of the art self-cleaning finish to maintain the original appearance.
- Fabrics coated with TITAN W can be welded without any surface preparation.



SPECIFICATIONS						
	Standard	SPORT COVER Type 1	BIG COVER Type 2	PLUS COVER Type 3	STRONG COVER Type 4	EXTRA COVER Type 5
Type of base fabric	EN-ISO2076	High Tenacity Polyester				
Yarn size (dtex)	EN-ISO7211	1100	1100	1670	1670	2200
Yarn construction warp-weft (N ^o /cm)	EN-ISO4602	9 x 9	12 x 12 Panama 2/2	10 x 10.5 Panama 2/2	14 x 14 Panama 3/3	14 x 14 Panama 3/3
Total weight (gsm)	EN-ISO2286	720	950	1100	1300	1450
Fabric thickness (mm)	EN-ISO2286	0.58	0.75	0.90	1.05	1.20
Tensile strength warp (N/5cm)	EN-ISO1421	3000	4000	5700	7500	10000
Tensile strength weft (N/5cm)	EN-ISO1421	3000	4000	5400	6500	9000
Tear strength -warp (N)	DIN53363	300	500	850	1200	1700
Tear strength -weft (N)	DIN53363	300	500	850	1200	1700
Cold resistance (°C)	Internal Test	-30	-30	-30	-30	-30
Heat resistance (°C)	Internal Test	+70	+70	+70	+70	+70
Light fastness (value)	EN-ISO105B02	6	6	6	6	6
Bending resistance (N ^o)	DIN53359	100,000	100,000	100,000	100,000	100,000
Seam strength (N/2cm)	EN-ISO2411	40	40	45	45	45
Light transmission (white colour) – T _v (%)	ASTM E 903 UNI EN 410	8.0	5.9	4.7	4.3	4.3
Light reflection (white colour) – P _v (%)	ASTM E 903	86.7	88.4	89.3	89.1	87.8
UV transmission (white colour) – T _{uv} (%)	ASTM E 903 UNI EN 410	0.02	<0.005	<0.005	0.03	0.03

FIRE RETARDANCY			
COUNTRY	STANDARD	COUNTRY	STANDARD
Australia	AS 1530.3	Germany	DIN 4102 B1
Italy	Class 2	Spain	M1 & M2
United Kingdom	BS 7837: 1996	France	M2
Canada	Large-Small Scale NFPA 701-1989	Denmark, Norway & Sweden	SIS 65 00 82
U.S.A.	California State Marshall	China	GB 8624 B1
FR certificates and further information available upon request			