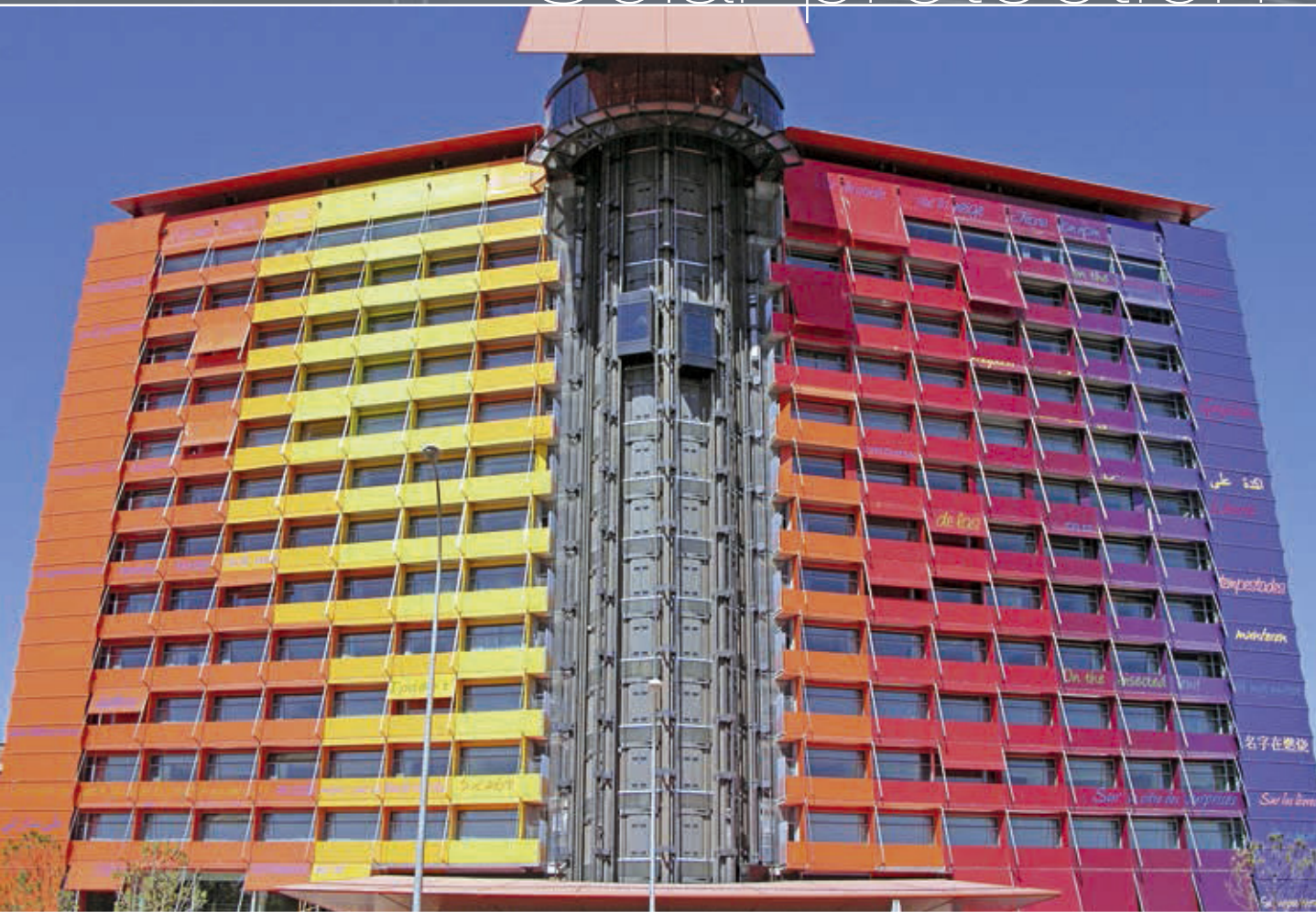


# Solar protection



**PRECONSTRAINT<sup>®</sup>**  
**502**

[www.ferrari-architecture.com](http://www.ferrari-architecture.com)

**FERRARI**  
architecture



**PRECONSTRAINT®**  
**502**

## Textiles for solar protection

*Main applications:* façade blinds, awnings, shadesails, canopies, light structures, etc.

### ■ A unique coordinated range

The 40 colours in the Préconstraint® 502 range have been specially created by the design department of Ferrari® with all industrial and architectural applications in mind. The adaptation to current and future colour trends and the addition of metallic finishes and inter-ferential colours bestow enduring individual traits to every project.

This unique range is very closely coordinated with other Ferrari® products ranges and facilitates the harmonization of awnings to interior solar blinds, exterior canopy structures, facades and other textile coverings.



*White Water World - Australia*

### ■ High-performance thermal protection



*Sail shade - France*

The wide colour range makes selection easy, to obtain required heat protection properties.

New formulations ensure high-performance thermal protection systems for window blind, shading fabric or canopy designs.

High heat-reflection capacities of certain colours can contribute to enhanced user comfort.

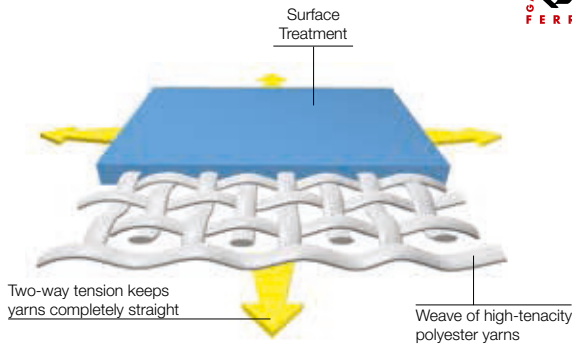
### ■ Enduring technical benefits

The full advantage of Ferrari® Préconstraint® technology is reflected in the Préconstraint® 502 range. It offers many advantages to every type of project: dimensional stability for shading fabrics; unmatched strength for canopies and large-sized applications; high UV resistance due to rigorous choice of pigments; ease of maintenance with a new surface treatment and a consistent smooth appearance.



*Children's Hospital - St. Louis - United States*

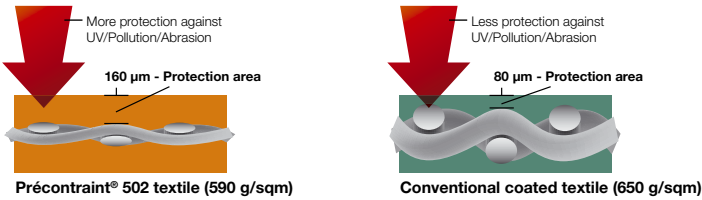
# ■ Exclusive **Précontraint® Ferrari®** technology



Made using the exclusive patented Ferrari® Précontraint® technology, Précontraint® 502 textiles are manufactured under equal tension throughout the manufacturing cycle.

The result of that is — exceptional dimensional stability — perfect tensioning and finish — shape that is retained at installation and over time — long-lasting mechanical resistance — substantially extended lifespan — exceptional flexibility that ensures architectural freedom and ease of fitting.

Greater coating thickness over the surface of the yarns  
Thicker coating on the thread crests ensures that the physical properties of Ferrari® Précontraint® membranes are preserved over time – a key factor in the durability of your projects.



## ■ Technical features

### **PRECONTRAIN®** **502**

Long life	Tear resistance	Dimensional stability	UV resistant	Won't sag
Easy maintenance	Flexibility	Flame retardant	Thermal comfort	Graphic Customization

Creative Freedom	100% recyclable textile

## ■ Solar and light properties (according to EN 14501)

Reference	TS	RS	AS
502-1013	10	61	29
502-1125	4	21	75
502-1499	4	48	48
502-2012	4	44	52
502-2135	7	58	35
502-2136	2	15	83
502-2137	6	22	72
502-2138	4	36	60
502-2141	8	52	40
502-2144	7	66	27
502-2145	7	57	36
502-2148	4	30	66
502-2149	3	24	73
502-2150	11	46	43
502-2151	8	60	32
502-2152	9	37	54
502-2156	4	15	81
502-2157	8	47	45
502-2158	4	34	62
502-2159	5	46	49
502-2160	5	35	60
502-2161	6	28	66
502-2162	6	25	69
502-2163	5	48	47
502-2164	7	50	43
502-2165	15	29	56
502-2166	12	56	32
502-2167	2	29	69
502-2168	1	43	56
502-2171	4	48	48
502-2172	12	47	41
502-2173	12	42	46
502-8056	3	20	77
502-8102	10	76	14
502-8204	16	41	43
502-8255	20	37	43
502-8284	6	24	70
502-8341	10	68	22
502-8450	2	19	79
502-8861	7	61	32

TS : Solar Transmission as a %  
RS : Solar Reflection as a %  
AS : Solar Absorption as a %  
TS + RS + AS = 100% of the incident energy

The colours and textures represented in this digital image are provided as a reference only. Whether seen on a screen or printed, they cannot in any way match the actual item. We recommend procuring an actual sample when specifying these products.



502-2150 **Raspberry**

## ■ Emerging colours

---

Promoting a strong urban harmony, featuring neutral discreet shades, such as Mastic, Concrete and Cornflower.

Aluminium and Shifting Grey being more sophisticated shades.



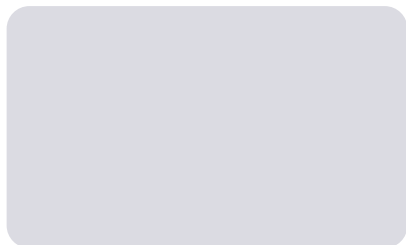
502-8102 **White**



502-2160 **Lagoon**



502-2167 **Concrete**



502-2144 **Mastic**



502-2163 **Turtledove**



502-2159 **Cornflower**



502-1499 **Shifting grey**



502-2168 **Aluminium**

## ■ Design illusion

---

Contemporary architecture ventures towards dynamic, almost fluorescent colours that have a strong presence.

This bright, saturated colour harmony strongly reflects a current trend, in which every contrast is possible.



502-2156 **Spruce**



502-8056 **Tennis**



502-2157 **Aniseed**



502-2172 **Carrot**



502-8204 **Mandarin**



502-2166 **Buttercup**



502-2165 **Blackcurrant**



502-2150 **Raspberry**

## ■ Evolving with time

---

The first impression is that these colours appear to be taken directly from nature's palette; evoking the continuous cycle of the plant world. Looking deeper,

these colours appear smarter and more refined, reminding us of certain Art Nouveau paintings.



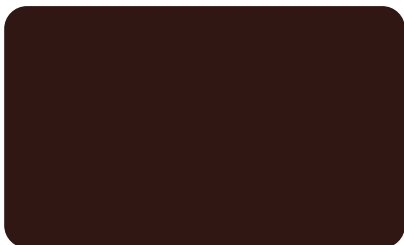
502-8284 **Maroon**



502-2149 **Beetle**



502-2158 **Moss green**



502-2137 **Walnut stain**



502-2138 **Dead leaf**



502-2012 **Pepper**



502-2173 **Tuscan**



502-2145 **Gold**

## ■ Body language

---

A palette taking inspiration from a variety of flesh tones, from Champagne, through Pale Pink to Cocoa.

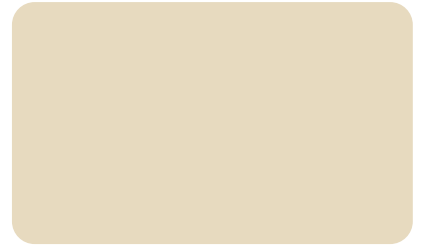
These colours are soft and mellow, reflecting neutrality, remaining discreet, sober and subtle.



502-2148 **Cocoa**



502-2141 **Camel**



502-8861 **Vanilla**



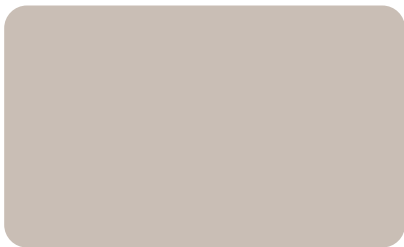
502-2164 **Violet**



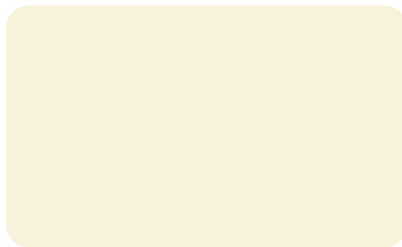
502-2151 **Pale Pink**



502-1013 **Chick**



502-2135 **Sandy beige**



502-8341 **Champagne**

## ■ Mayhem

---

Enter a strange satanic nocturnal world. Colouring is ambiguous, Slate changes from black to violet...

It's perturbing to see blood reds in the range.



502-2162 **Slate**



502-1125 **Marine**



502-2161 **Night blue**



502-2136 **Onyx**



502-8450 **Black**



502-2171 **Boulder**



502-2152 **Velvet red**



502-8255 **Poppy**

# Solar protection

## PRECONTRAIN® 502

Technical properties	Précontraint® 502	Standards
Yarn	1100 dtex PES HT	<b>TERSUISSE</b> ☉
Weight	590 g/sqm	EN ISO 2286-2
Width	180 cm	
Tensile strength (warp/weft)	250/250 daN/ 5 cm	EN ISO 1421
Tear strength (warp/weft)	25/20 daN	DIN 53.363
Adhesion	9/9 daN/ 5 cm	EN ISO 2411
Finish	vernis Biface	
Flame retardancy	<b>M2/NFP 92-507 • B1/DIN 4102-1 • BS 7837 • GROUP 1/AS/NZS 3837 1530.3/AS/NZS • SP METHOD 2205 • M2/UNE 23.727-90 VKF 5.3/SN 198898 • B1/ONORM A 3800-1 • CLASSE 1/UNI 9177-87 METHOD 1/NFPA 701 • CSFM T19 • UBC 31-1 • CLASS A/ASTM E84 G1/GOST 30244-94 • CAN/ULC S109</b>	
Euroclass	<b>B-s2,d0</b>	EN 13501-1
Quality management system		ISO 9001

The technical data here above are average values with a +/- 5% tolerance.

The buyer of our products is fully responsible for their application and their transformation concerning any possible third party. The buyer of our products is responsible for their implementation and installation according to the standards, use and customs and safety rules of the countries where they are used. Concerning the contractual warranty, please refer to the text of our warranty.

The values here above mentioned are the results of tests performed in conformity with the use and customs in terms of studies; they are given as an indication in order to allow our customers to make the best use of our products. Our products are subject to evolutions due to technical progress; we remain entitled to modify the characteristics of our products at any time. The buyer of our products is responsible to check that the here above data are still valid.

### www.soltis-textiles.com

Downloading, technical data, references, photos, description of tenders, and much more. All in real time.



### Sustainable development

Ferrari® development is based on strict adherence to good safety and environmental practices. This includes an understanding of Life Cycle Analysis (LCA), selection of the best materials, and eco-design. The Company obtained its first ISO 14001 certification in 2003.

### 100% recyclable

Ferrari® developed the Taxyloop® technology specifically for the recycling of composite PVC membranes and textiles. Through the management of its end-of-life products Ferrari® is committed to sustainable development.

[www.taxyloop.com](http://www.taxyloop.com)

### Specification Service

The Ferrari® specification service is available to inform you, advise you and suggest innovative solutions for your specific requirements.

To detail your project, fill in a form under:  
[www.soltis-textiles.com](http://www.soltis-textiles.com)

TEXYLOOP®  
A CLOSELOOP INDUSTRY

**FERRARI**



#### EUROPE

FERRARI SA STAMOID AG  
La Tour du Pin - FRANCE Eglisau - SWITZERLAND  
Tel: +33 (0)4 74 97 41 33 Tel: +41 (0)44 868 26 26

#### NORTH AMERICA

FERRARI TEXTILES CORP.  
Florida - USA  
Tel: +1 954 942 3600

#### LATIN AMERICA

FERRARI LATINOAMERICA S.A.  
Santiago - CHILE Tel: +56 (2) 269 0019  
São Paulo - BRAZIL Tel: +55 (11) 3262 3405  
Mexico - MEXICO Tel: +52 (55) 5525 2900

#### MIDDLE EAST

FERRARI DUBAI  
Dubai - U.A.E  
Tel: +971 4 886 5506

#### ASIA - PACIFIC

FERRARI HONG-KONG LTD  
Tel: +852 3622 1340  
FERRARI JAPAN Tokyo  
Tel: +81(0)467 24 93 00

#### CHINA

FERRARI CHINA  
Shanghai  
Tel: +86 21 6211 6936