



RODA® COOL

TFL COOL TEC 

Keep cool in a colourful world

» Pigments for shoe upper, furniture,
automotive, garment and leather goods



TFL – Great chemicals. Excellent advice.

RODA® Cool



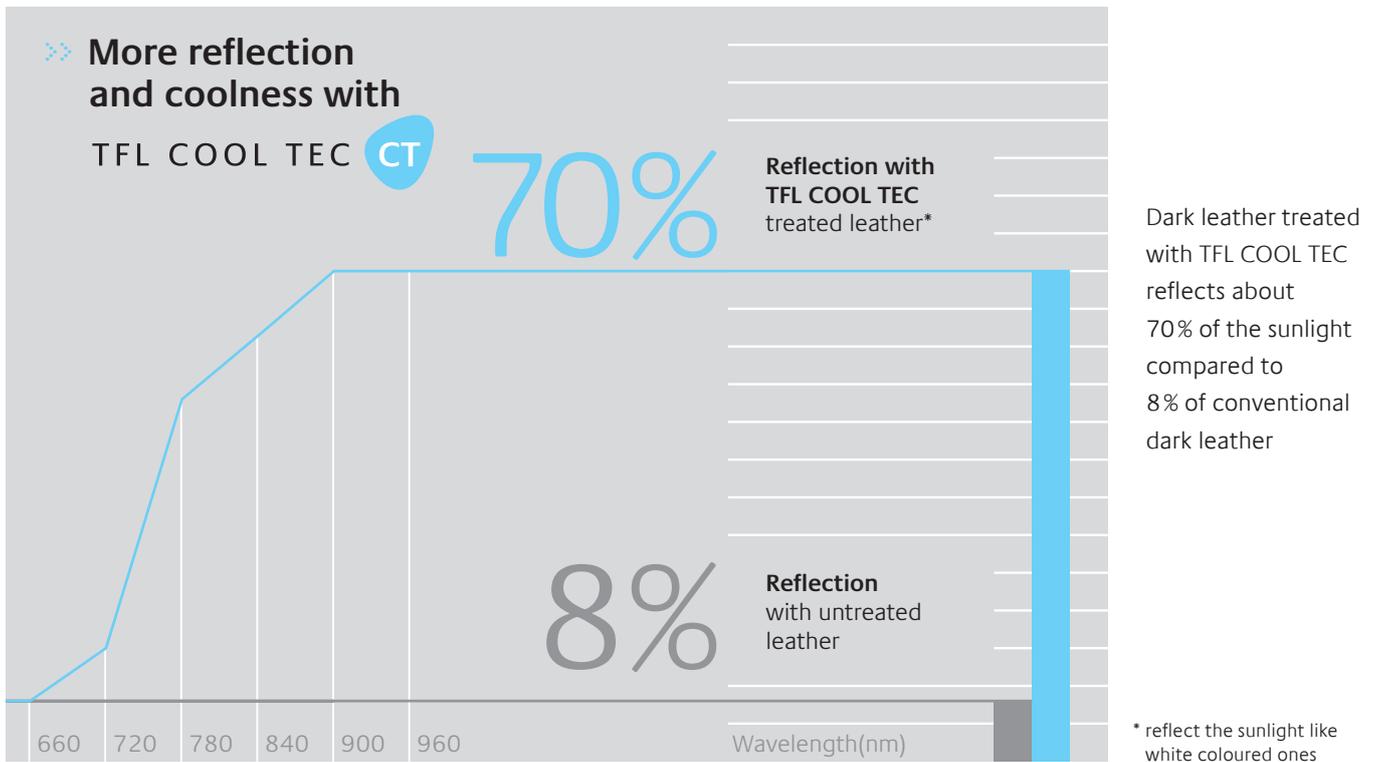
Keep Cool in a colourful world



Natural sunlight consists of wavelength which are visible for human eye. It also contains a wide range of near-infra-red (NIR) light, which is responsible for the fact that many material become hot when exposed to sunlight. Leather has as it's nature a high reflectance of near IR wavelength. The TFL Cool pigments retain this performance unlike standard pigments. They are superior to pigment systems which only reflect the NIR. At the same time they are selected to match the common leather shades same as conventional pigment ranges. To get the optimum performance it is essential to use TFL Cool system in wet-end and finishing.

Water based pigment solution

RODA® Cool pigments are finely dispersed in an anionic aqueous phase and are particularly suitable for shoe/leather goods and upholstery articles. **RODA® Cool** pigments are designed to meet highest properties for all kind of leathers. On the basis of carefully selected raw materials, excellent lightfastness, migration resistance and brilliancy can be achieved. All **RODA® Cool** pigments reflect the NIR for 60% or more.



The pigments are carefully selected to exclude problems with widely restricted, toxic heavy metals like e. g. Mercury, Cadmium, Lead, Arsenic or any Cr(VI) compounds. **RODA® Cool** pigments are well suited to produce leather that fulfils all common RSL requirements and do comply with all REACH obligations regarding registration and SVHC. They are certificated for ZDHC Level 3.

The main characteristics of the **RODA® Cool** pigments beside the IR wavelength reflectance are:

- excellent distension
- high strength
- very good general fastness properties
- good covering power



All the **RODA® Cool**, whether in the full shade or in reduction with white, satisfy all the demands regarding the required fastness properties of pigmented finishes for leather finishing.



Cool pigments for all types of leather

RODA® Cool



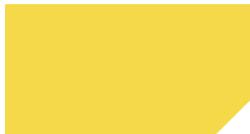
Selecting the right colour

Full shade:
10% in clear paste

White reduction:
10% in white paste
brown reduction:
for white pigments.
20% in brown paste

Full shade:
10% in clear paste

White reduction:
10% in white paste
brown reduction:
for white pigments.
20% in brown paste



RODA® Cool Lemon M



RODA® Cool Brown



RODA® Cool Light Ochre



RODA® Cool Dark Brown



RODA® Cool Yellow



RODA® Cool Light Blue



RODA® Cool Orange



RODA® Cool Blue R



RODA® Cool Red



RODA® Cool Dark Green



RODA® Cool Fuchsia



RODA® Cool Black



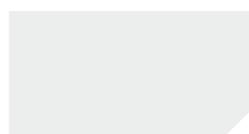
RODA® Cool Red Violet



RODA® Cool Jet Black



RODA® Cool Violet



RODA® Cool White



Colouristic properties and performance

	Pigment type	Covering power		Brilliancy	Dry content %	3 cycles lightfastness (ISO 105-B06) Greyscale – Full shade		3 cycles lightfastness (ISO 105-B06) Greyscale – Tint tone	PVC migration (ISO 15701)	30' Heat resistance (ISO 17228)
Lemon N	Organic	x	xxx	22	5	4-5	5	5	200° C	
Light Ochre	Organic	x	xx	19	5	5	4-5	4-5	200° C	
Yellow	Organic	x	xxx	20	5	4-5	5	5	200° C	
Orange	Organic	x	xxx	21	4-5	4-5	4-5	4-5	180° C	
Red	Organic	xx	xxx	24	5	4-5	4-5	4-5	200° C	
Fuchsia	Organic	xx	xx	20	4-5	4-5	4-5	4-5	200° C	
Red Violet	Organic	xx	xx	21	4	3	5	5	200° C	
Violet	Organic	xx	xx	20	4-5	4-5	5	5	200° C	
Brown	Organic	xx	xx	20	5	5	4-5	4-5	200° C	
Dark Brown	Organic	xx	xx	25	5	4-5	3-4	3-4	180° C	
Light Blue	Organic	x	xxx	20	4-5	5	5	5	200° C	
Blue R	Organic	x	xxx	13	5	4-5	5	5	180° C	
Dark Green	Organic	xx	x	21	5	5	5	5	200° C	
Black	Organic	xx	xx	21	5	5	4-5	4-5	200° C	
Jet Black	Organic	xx	x	35	4-5	5	4-5	4-5	300° C	
White	Inorganic	xxx	x	69	5	n.a.	5	5	300° C	

Brilliancy

x = low
xx = medium
xxx = high

Covering power

x = low
xx = moderate
xxx = high

Fastness to migration according to gray scale ISO 105-A03

5 = no staining of plasticized PVC
4 = slight staining of plasticized PVC
3 = noticeable staining of plasticized PVC
2 = pronounced staining of plasticized PVC
1 = very pronounced staining of plasticized PVC



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