AQUADERM® X-PIGMENTS

Play of colours - when high performance meets consistency

Water-based pigments for leather finishing

TFL – Great chemicals. Excellent advice.

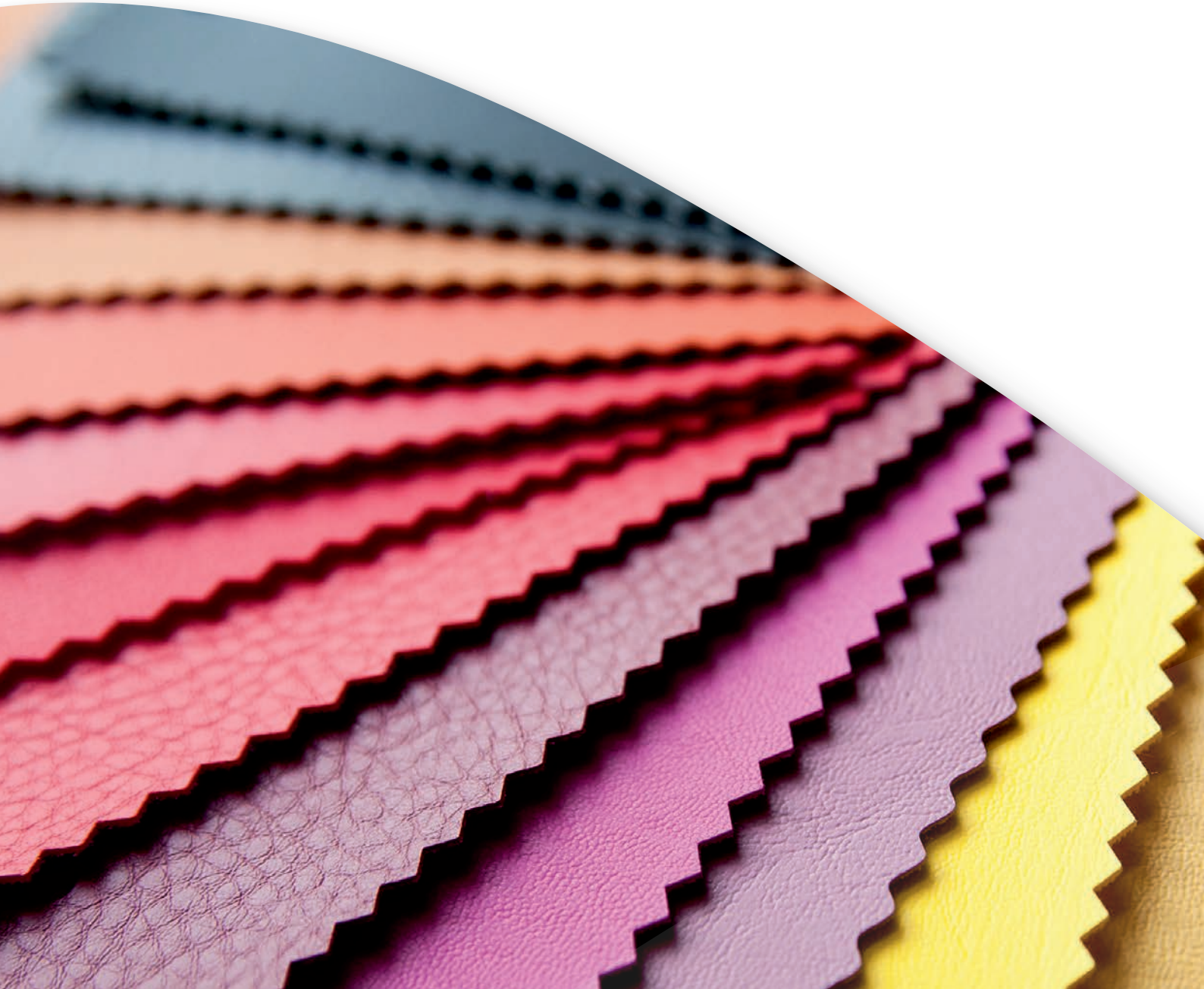
AQUADERM® X-PIGMENTS

When high performance meets consistency

Ultimately, it's the finishing that gives leather its beautiful colour, its brilliance and its unique appearance. So there is a correspondingly strong demand for top-level leather products to create articles of the highest quality.

At the same time, innovative solutions are needed to comply with challenging environmental regulations and specific industry requirements regarding eco-efficiency and consumer safety.

That's why the water-based pigment range AQUADERM® X-Pigments has been developed. They deliver state-of-the-art performance characteristics while at the same time meeting all current demands for future-oriented finishing.



Water-based pigment solution

AQUADERM® X-Pigments have been specially designed for all kinds of premium leather applications where a very high standard of finishing quality is required, e.g. in the automotive segment. On the basis of carefully selected raw materials, excellent light fastness, heat and migration resistance, brilliancy and exact dosing properties can be achieved with AQUADERM® X-Pigments.

Besides, finishers benefit from their reliable product consistency, which is extremely important to ensure consistent colour reproducibility. Another decisive strength of AQUADERM® X-Pigments is the improved sustainability profile of this advanced water-based pigment range.

AQUADERM® X-Pigments fulfill all major regulatory and industry requirements on ecologically produced leather that complies with the highest consumer protection standards. The entire product range consists of solvent-free pigment dispersions featuring very fine particles and only a low acrylate-based polymer binder content.

What's more, all products are casein-free and contain no emulsifiers, brightening agents or other additives capable of causing migration. According to current RSL, REACH and GADSL obligations, They are certificated for ZDHC MRSL v3.1 Level 3. AQUADERM® X-Pigments meet the following criteria:

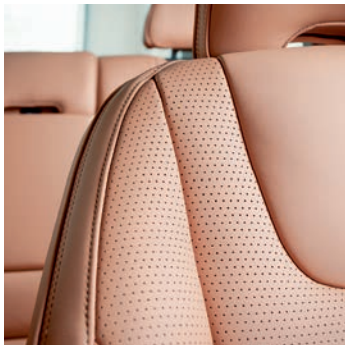
- VOC-free (according to European directive 1999/13/EC)
- Free of heavy metals, such as mercury, cadmium, lead and arsenic
- Chrome(VI)-free
- Formaldehyde-free
- Phthalate-free
- Free of NMP, NEP and DMFA

The defining features of AQUADERM® X-Pigments are premium-level leather appearance and brilliancy combined with the satisfaction of a wide range of essential environmental and safety requirements.

AQUADERM® X-PIGMENTS – designed for premium leather application

EUDERM® X-GRADE SF/N

The ideal complement for using organic pigments



Remarkably higher colour strength and more brilliant colour shades are what tanneries are looking for. Organic pigments however have a lower covering power due to their chemical composition.

For this reason, it is recommended to use EUDERM® X-Grade SF/N as the perfect addition to the organic AQUADERM® X-Pigments.

Beside its excellent hiding and upgrading power, this single finishing auxiliary significantly increases the covering power of such pigments without, however, negatively affecting their brilliancy.

EUDERM® X-Grade SF/N is suitable for all kinds of pigmented leather and has been designed to be used in high amounts as a single filling and upgrading agent in base and colour coats applied by roll coating or spraying. Simultaneously it also works as a matting agent.

EUDERM® X-Grade SF/N is well known for its high performance in reducing tackiness during e.g. embossing, enhancing the covering effect of grain side defects and levelling out unevenly dyed crust leather.

Testcard for determination of covering power
In testing, organic pigments show a clearly improved covering power when combined with EUDERM® X-Grade SF/N.

AQUADERM® X-PIGMENTS

Selecting the right colour

Full shade	Brown*/white** reduction	Full shade	White** reduction
X-White CR		X-Brown C	
X-White C		X-Dark Brown C	
X-White S		X-Blue B	
X-Lemon B		X-Violet B	
X-Golden Yellow B		X-Green B	
X-Orange B		X-Black B	
X-Red B		X-Black C	
X-Red Violet B			
X-Caramel C			

* 100 parts AQUADERM® X-White C or X-White S with 40 parts AQUADERM® X-Brown C

** 20 parts AQUADERM® X-Pigment with 80 parts AQUADERM® X-White C

AQUADERM® X-PIGMENTS

Colouristic properties and performance

	Pigment type	Character	Covering Power	Brilliancy	Solid content approx. %	Density g/cm³	Light fastness full shade DIN EN ISO 105-B02	Light fastness white reduction DIN EN ISO 105-B02	Migration into soft PVC DIN EN ISO 15701	30´ Heat resistance
X-White C	Titanium dioxide	Pigment for white finishes	xxx	x	65	1,70	7	7	5	>300°C
X-White CR	Titanium dioxide	Pigment for white finishes	xxx	x	65	1,70	7	7	5	>300°C
X-White S	Titanium dioxide	Economic for shading	xx	x	62	1,60	7	7	5	>300°C
X-Lemon B	Organic	Greenish, ligh yellow	x	xxx	28	1,08	7	7	5	approx. 200°C
X-Golden Yellow B	Organic	Warm yellow with high brilliancy	x	xxx	33	1,05	6	5	5	approx. 200°C
X-Orange B	Organic	Brilliant, warm orange	x	xxx	26	1,06	7	7	5	approx. 290°C
X-Red B	Organic	Neutral red	xx	xxx	28	1,05	6	6	5	approx. 160°C
X-Red Violet B	Organic	Brilliant typical red violet	xx	xxx	27	1,02	7	6	5	approx. 260°C
X-Caramel C	Iron oxide	Yellow type with very high covering power	xxx	x	57	1,46	7	7	5	approx. 180°C
X-Brown C	Iron oxide	Reddish brown	xxx	xx	55	1,26	7	7	5	>300°C
X-Dark Brown C	Iron oxide	Dark greenish brown	xxx	x	56	1,65	7	7	5	>300°C
X-Blue B	Organic	Neutral blue	x	xxx	28	1,07	6	6	5	approx. 260°C
X-Violet B	Organic	Dark bluish violet	x	xxx	19	1,03	6	6	5	approx. 260°C
X-Green B	Organic	Bluish green	x	xxx	28	1,07	7	7	5	approx. 240°C
X-Black B	Carbon black	Brilliant black also for shading	xxx	xxx	20	1,03	7	7	5	>300°C
X-Black C	Carbon black	High solid pigment for black finishes	xxx	xx	32	1,10	7	7	5	>300°C

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

Covering power

x = low
xx = moderate
xxx = high

Brilliancy

x = low
xx = medium
xxx = high

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