



boost your business with  
**AQUAGRADE**®







# All the chemicals you need

Founded in 1973, FENICE SPA is situated in north east Italy, just a few minutes away from the important tannery area of Arzignano, where rapid growth was in full swing at the time.

Right from the start, the company showed strength of character by its dedication to the innovation of new products and application systems; strong values such as honesty, commitment and responsibility; as well as appreciation and respect for people and the environment.

The original headquarters are still operative and located in Piana (Valdagno). Today they are an independent unit, dedicated to the production of pigments and stuccos.

In 1986, FENICE built new production sites featuring laboratories which have contributed to raising standards of quality, in terms of the environment and customer service.

FENICE is proud to be the first chemical company in the Arzignano area that made the service of its laboratories of application and control available to the modern tanneries, offering them advanced and complicated systems of analysis. This leading position continues today, with the company devoting significant investment to maintaining this valuable function.



## All the chemicals you need

The environment of the plant created in 1986 was presented as a very avant-garde project in a post-industrial style where aesthetics, functionality and the availability of space were prioritised.

The 1990s were the years of internationalisation, with exports stable at around 50%, which have continued to grow to over 70% today, to more than 50 countries, across 6 continents. FENICE has been awarded a Gold Medal for Economic Development in Italy and a further medal at an international level.

FENICE is proud to employ an international team of staff both internally and externally.

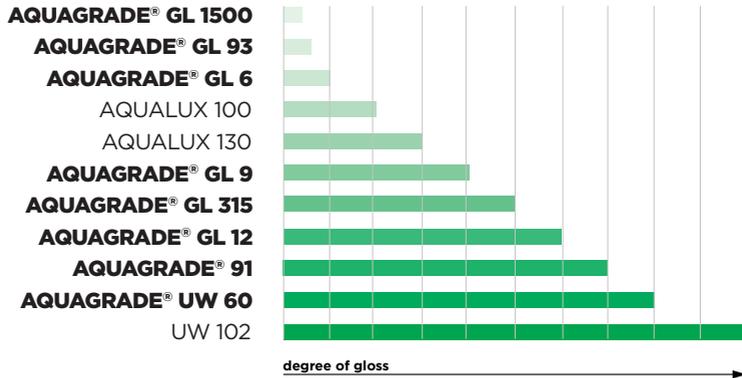
In 1994, FENICE SpA was the first Italian company, working exclusively in the leather sector, to obtain the ISO 9001 Quality Certification. This was subsequently updated in 2003 to the UNI EN ISO 9001:2000 standard and in 2010 to the UNI EN ISO 9001:2008 standard.

This achievement has been made through our commitment to the idea that a Total Quality system is essential for company development and for guaranteeing added value to the customer.

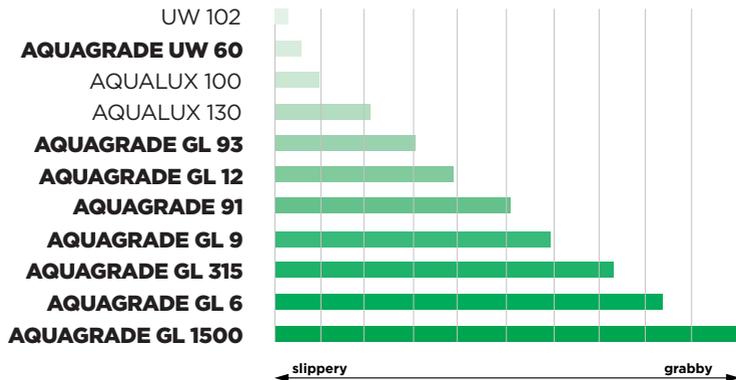




## Brightness

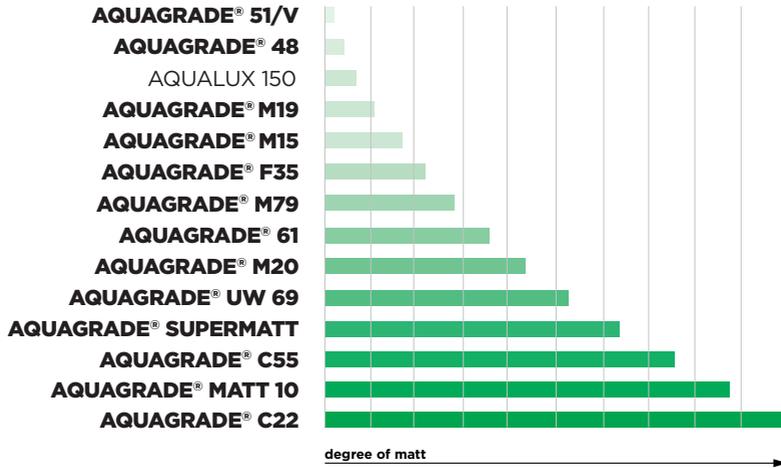


## Feel

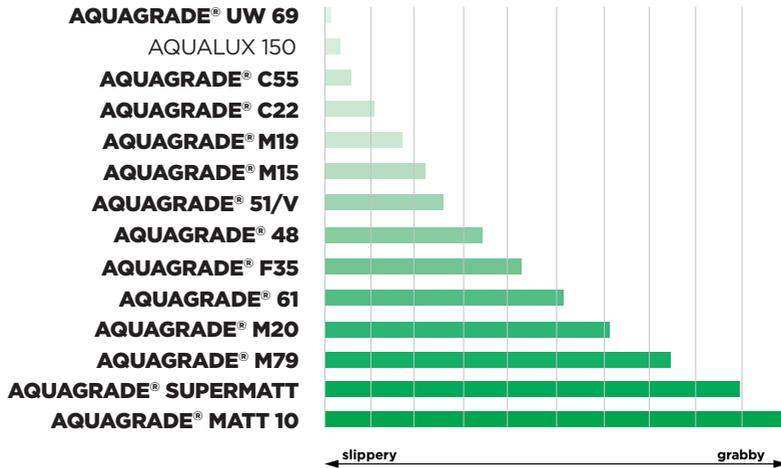




## Opacity



## Feel





## AQUAGRADE® 48

Rev. Date: 11.20

### NATURE

Aliphatic polyurethanes and matting agents in water dispersion.

### USE

AQUAGRADE® 48 is the ready-to-use topcoat for upholstery leather that confers a good degree of dullness, non repolishable, and an extremely pleasant warm and waxy feel.

It forms a matt, tough film with good elasticity.

AQUAGRADE® 48 is applied by spray as supplied, with the addition of crosslinkers for increasing adhesion and wet-rub fastness: 3-4% of CT 28 (polyisocyanate) or 2-3% of CT 14/C (polyaziridine)

### PHYSICAL CONSTANTS

	Standard Value	Test Method
Appearance	whitish liquid	MDA 008
Dry content (%)	16 ± 2	MDA010/011
pH (1:10)	8,0 ± 1	MDA 004
Density (g/cm <sup>3</sup> )	1,01 ± 0,05	MDA 018

### STORAGE

Store in a dry, cool, well ventilated area between +5 and 40°C. Keep from freezing.

For safe use of the product, the information given in the safety data sheet should be carefully observed.

### MINIMUM SHELF-LIFE

The product is guaranteed for its physical and quality characteristics for at least 12 months from the date of production. It must be kept well sealed and stored in its original drum according to the conditions in technical and safety data sheet.



## AQUAGRADE® 51/V

Rev. Date: 11.20

### NATURE

Aliphatic polyurethane binders in water dispersion.

### USE

AQUAGRADE® 51/V is a special topcoat which has been specifically formulated to obtain a water-based two-tone effect on all types of leathers, particularly on upholstery leather, with good results in terms of distension and general physical fastness.

AQUAGRADE® 51/V is employed when the usage of any organic solvent and lacquer is to be eliminated with great environmental advantages as a result.

AQUAGRADE® 51/V forms a tenacious, elastic, semi-glossy, scarcely sticky film, with very good adhesion and flow out properties.

To further improve its general fastness it is advisable to use crosslinkers for water-based systems such as CT 28 (polyisocyanate) or CT 14/C (polyaziridine).

### ESEMPIO D'USO

AQUAGRADE® 51/V	900
MICRODYNE pigments	90
CT 28	10

### PHYSICAL CONSTANTS

	Standard Value	Test Method
Appearance	whitish emulsion	MDA 008
Dry content (%)	19 ± 2	MDA010/011
pH (1:10)	8,0 ± 1	MDA 004
Density (g/cm <sup>3</sup> )	1,01 ± 0,05	MDA 018

### STORAGE

Store in a dry, cool, well ventilated area between +5 and 40°C. Keep from freezing.

For safe use of the product, the information given in the safety data sheet should be carefully observed.

### MINIMUM SHELF-LIFE

The product is guaranteed for its physical and quality characteristics for at least 12 months from the date of production. It must be kept well sealed and stored in its original drum according to the conditions in technical and safety data sheet.

## AQUAGRADE® 61

Rev. Date: 11.20

### NATURE

Aliphatic polyurethanes and dulling agents in water dispersion.

### USE

AQUAGRADE® 61 is a dull, non-repolishable, water-based topcoat ideal for the finishing of upholstery leathers, to which it confers a highly appreciated touch, recognizable by its waxy, talc-like feel.

AQUAGRADE® 61 is applied in its supplied form by spray gun systems, in a quantity of 30-40g/sq.m. to ensure its exceptional rheological quality is maintained.

AQUAGRADE® 61 is added with the following crosslinkers to increase its general fastness : 3-4% CT 28 (polyisocyanate) or 2-3% of CT 14/C (polyaziridine).

### PHYSICAL CONSTANTS

	Standard Value	Test Method
Appearance	whitish milky fluid	MDA 008
Dry content (%)	16 ± 2	MDA010/011
pH (1:10)	8,0 ± 1	MDA 004
Density (g/cm <sup>3</sup> )	1,02 ± 0,05	MDA 018

### STORAGE

Store in a dry, cool, well ventilated area between +5 and 40°C. Keep from freezing.

For safe use of the product, the information given in the safety data sheet should be carefully observed.

### MINIMUM SHELF-LIFE

The product is guaranteed for its physical and quality characteristics for at least 12 months from the date of production. It must be kept well sealed and stored in its original drum according to the conditions in technical and safety data sheet.

## AQUAGRADE® 91

Rev. Date.: 11.20

### NATURE

Aliphatic polyurethanes in water dispersion.

### USE

AQUAGRADE® 91 is the ready-to-use water-based topcoat for finishing upholstery, footwear and leathers.

AQUAGRADE® 91 is characterized by a bright, glossy, tenacious film which is extremely scratch resistant.

AQUAGRADE® 91 has a slightly slippery film, enabling glossy fixing with excellent wet/ dry rub fastness and abrasion resistance.

It is applied in its supplied form by spray, with the previous addition of 3% of CT 80 (polyisocyanate specific for the bright top-coats) or 2-3% of CT 14/C (polyaziridine) crosslinkers.

### PHYSICAL CONSTANTS

	Standard Value	Test Method
Appearance	whitish emulsion	MDA 008
Dry content (%)	18 ± 2	MDA010/011
pH (1:10)	8,0 ± 1	MDA 004
Density (g/cm <sup>3</sup> )	1,02 ± 0,05	MDA 018

### STORAGE

Store in a dry, cool, well ventilated area between +5 and 40°C. Keep from freezing.

For safe use of the product, the information given in the safety data sheet should be carefully observed.

### MINIMUM SHELF-LIFE

The product is guaranteed for its physical and quality characteristics for at least 12 months from the date of production. It must be kept well sealed and stored in its original drum according to the conditions in technical and safety data sheet.



## AQUAGRADE® C22

Rev. Date: 11.20

### NATURE

Aliphatic polyurethanes and dulling agents in water dispersion.

### USE

AQUAGRADE® C22 is a matt topcoat with excellent physical-mechanical properties designed for automotive leather finishing.

AQUAGRADE® C22 forms a medium-hard film: tough and flexible, hydrolysis resistant, non-repolishable whilst rubbing, extremely high degree of dullness.

AQUAGRADE® C22 allows to obtain high performance finishes concerning both the rub and abrasion fastness and flex endurance, even at low temperature.

Leathers topcoated with AQUAGRADE® C22 have a maximum degree of matt, are uniform and with a smooth dry touch.

AQUAGRADE® C22 is applied by spray with addition of the crosslinker CT 28 (polyisocyanate) and the feel modifier MT 34/HF, both essential for the complete development of the performances.

### PHYSICAL CONSTANTS

	Standard Value	Test Method
Appearance	whitish liquid	MDA 008
Dry content (%)	20 ± 2	MDA010/011
pH (1:10)	8,0 ± 1	MDA 004
Density (g/cm3)	1,01 ± 0,05	MDA 018

### STORAGE

Store in a dry, cool, well ventilated area between +5 and 40°C. Keep from freezing.

For safe use of the product, the information given in the safety data sheet should be carefully observed.

### MINIMUM SHELF-LIFE

The product is guaranteed for its physical and quality characteristics for at least 12 months from the date of production. It must be kept well sealed and stored in its original drum according to the conditions in technical and safety data sheet.



## AQUAGRADE® C55

Rev. Date: 11.20

### NATURE

Aliphatic polyurethanes and dulling agents in water dispersion.

### USE

AQUAGRADE® C55 is a high performance matt topcoat for automotive leathers similar to the top of the range AQUAGRADE® C22, being slightly less matt, but with excellent physical-mechanical characteristics.

AQUAGRADE® C55 features a smooth, velvet hand and forms a medium-hard film, tough and flexible, hydrolisis resistant, with a non-repolishable high degree of dullness.

AQUAGRADE® C55 allows to obtain high performance finishes concerning both the rub and abrasion fastness and flex endurance, even at low temperature.

AQUAGRADE® C55 is applied by spray with addition of the crosslinker CT 28 (polyisocyanate ) and the feel modifier MT 34/HF, which are essential for the complete development of its characteristics.

### PHYSICAL CONSTANTS

	Standard Value	Test Method
Appearance	whitish liquid	MDA 008
Dry content (%)	20 ± 2	MDA010/011
pH (1:10)	8,0 ± 1	MDA 004
Density (g/cm <sup>3</sup> )	1,01 ± 0,05	MDA 018

### STORAGE

Store in a dry, cool, well ventilated area between +5 and 40°C. Keep from freezing.

For safe use of the product, the information given in the safety data sheet should be carefully observed.

### MINIMUM SHELF-LIFE

The product is guaranteed for its physical and quality characteristics for at least 12 months from the date of production. It must be kept well sealed and stored in its original drum according to the conditions in technical and safety data sheet.



## AQUAGRADE® F35

Data Rev.: 11.20

### NATURE

Aliphatic polyurethanes in water dispersion.

### USE

AQUAGRADE® F35 is a matt topcoat for upholstery leather with a non-repolishable dullness, a silky-velvet hand and high general fastness.

AQUAGRADE® F35 confers a high degree of matt with an elegant and attractive appearance.

AQUAGRADE® F35 keeps the brightness of any added chromophores or when used in basecoat mixtures, AQUAGRADE® F35 is suitable for bright or dark colours, where it does not alter the tone. AQUAGRADE® F35 forms a flexible film of medium hardness and guarantees outstanding performance, particularly wet-rubs, when it is used in combination with the crosslinkers CT 28 (polyisocyanate) or CT 14/C (polyaziridine).

It is applied by spray as supplied. In order to obtain a more slippery hand it is advisable the addition of MT 34/HF in a ratio of 2-3%.

### PHYSICAL CONSTANTS

	Standard Value	Test Method
Appearance _____	whitish fluid	MDA 008
Dry content (%) _____	16 ± 2	MDA010/011
pH (1:10) _____	8,5 ± 1	MDA 004
Density (g/cm <sup>3</sup> ) _____	1,01 ± 0,05	MDA 018

### STORAGE

Store in a dry, cool, well ventilated area between +5 and 40°C. Keep from freezing.

For safe use of the product, the information given in the safety data sheet should be carefully observed.

### MINIMUM SHELF-LIFE

The product is guaranteed for its physical and quality characteristics for at least 12 months from the date of production. It must be kept well sealed and stored in its original drum according to the conditions in technical and safety data sheet.



## AQUAGRADE® GL 6

Rev. Date: 11.20

### NATURE

Glossy aliphatic polyurethanes in water dispersion.

### USE

AQUAGRADE® GL 6 is a ready-to-use PU topcoat for leather finishing for a glossy final appearance.

It forms a bright and transparent film of medium hardness and good elasticity.

AQUAGRADE® GL 6 is applied by spray as supplied and it confers high gloss, soft and slightly greasy firm feel, good wet-fastness when crosslinked with 4-5% of the specific polyisocyanate CT 80 or 2-3% CT 14/C (polyaziridine).

### PHYSICAL CONSTANTS

	Standard Value	Test Method
Appearance	opalescent whitish fluid	MDA 008
Dry content (%)	16 ± 2	MDA010/011
pH (1:10)	8,0 ± 1	MDA 004
Density (g/cm3)	1,00 ± 0,05	MDA 018

### STORAGE

Store in a dry, cool, well ventilated area between +5 and 40°C. Keep from freezing.

For safe use of the product, the information given in the safety data sheet should be carefully observed.

### MINIMUM SHELF-LIFE

The product is guaranteed for its physical and quality characteristics for at least 12 months from the date of production. It must be kept well sealed and stored in its original drum according to the conditions in technical and safety data sheet.



## AQUAGRADE® GL 9

Rev. Date.: 11.20

### NATURE

Glossy aliphatic polyurethanes in water dispersion.

### USE

AQUAGRADE® GL 9 is a glossy PU topcoat for upholstery leathers.

AQUAGRADE® GL 9 forms an elastic, transparent, medium-soft film and confers to the leather a natural, smooth, slightly waxy-oily feel.

AQUAGRADE® GL 9 may be used alone for glossy finishes or in combination with the AQUAGRADE® M 15 matt topcoat, when semi-gloss finishings are desired.

Though ready-to-use, AQUAGRADE® GL 9 may be crosslinked with CT 80 (polyisocyanate specific for the bright top-coats) or with CT 14/C (polyaziridine) and this leads to a notable improvement of general resistances, especially wet-rub fastness.

### PHYSICAL CONSTANTS

	Standard Value	Metodo di Analisi
Appearance _____	whitish fluid	MDA 008
Dry content (%) _____	14 ± 2	MDA010/011
pH (1:10) _____	8,0 ± 1	MDA 004
Density (g/cm <sup>3</sup> ) _____	1,01 ± 0,05	MDA 018

### STORAGE

Store in a dry, cool, well ventilated area between +5 and 40°C. Keep from freezing.

For safe use of the product, the information given in the safety data sheet should be carefully observed.

### MINIMUM SHELF-LIFE

The product is guaranteed for its physical and quality characteristics for at least 12 months from the date of production. It must be kept well sealed and stored in its original drum according to the conditions in technical and safety data sheet.



## AQUAGRADE® GL 12

Rev. Date: 11.20

### NATURE

Glossy aliphatic polyurethanes in water dispersion.

### USE

AQUAGRADE® GL 12 is the glossy topcoat with high physical-mechanical resistances formulated for upholstery and automotive leathers.

AQUAGRADE® GL 12 forms a tenacious, glossy, flexible film that is resistant even at low temperatures.

AQUAGRADE® GL 12 is characterized by a silky, slippery feel.

AQUAGRADE® GL 12 achieves outstanding physical-mechanical resistances when crosslinked with 5-6% of CT 80 (polyisocyanate specific for the bright top-coats) or 3% of CT 14/C (polyaziridine), particularly in regards to repeated wet/dry rub fastness and abrasion resistance.

AQUAGRADE® GL 12 is usually employed in combination with other matt topcoats in the AQUAGRADE® series to obtain the desired degree of matt.

### PHYSICAL CONSTANTS

	Standard Value	Test Method
Appearance _____	whitish opalescent fluid	MDA 008
Dry content (%) _____	22 ± 2	MDA010/011
pH (1:10) _____	8,0 ± 1	MDA 004
Density (g/cm3) _____	1,00 ± 0,05	MDA 018

### STORAGE

Store in a dry, cool, well ventilated area between +5 and 40°C. Keep from freezing.

For safe use of the product, the information given in the safety data sheet should be carefully observed.

### MINIMUM SHELF-LIFE

The product is guaranteed for its physical and quality characteristics for at least 12 months from the date of production. It must be kept well sealed and stored in its original drum according to the conditions in technical and safety data sheet.



## AQUAGRADE® GL 93

Rev. Date: 11.20

### NATURE

Aliphatic polyurethanes in water dispersion.

### USE

AQUAGRADE® GL 93 is the glossy topcoat with a dry, slippery feel utilized for upholstery articles, footwear and leathers.

AQUAGRADE® GL 93 forms a glossy but not shiny, medium-hard film with good scratch resistance, characterized by very good wet rub fastness when crosslinked with 2-3% of CT 14/C (polyaziridine) or 4-5% of the specific CT 80 (polyisocyanate).

### PHYSICAL CONSTANTS

	Standard Value	Test Method
Appearance _____	yellowish fluid	MDA 008
Dry content (%) _____	14 ± 2	MDA010/011
pH (1:10) _____	8,0 ± 1	MDA 004
Density (g/cm <sup>3</sup> ) _____	1,01 ± 0,05	MDA 018

### STORAGE

Store in a dry, cool, well ventilated area between +5 and 40°C. Keep from freezing.

For safe use of the product, the information given in the safety data sheet should be carefully observed.

### MINIMUM SHELF-LIFE

The product is guaranteed for its physical and quality characteristics for at least 12 months from the date of production. It must be kept well sealed and stored in its original drum according to the conditions in technical and safety data sheet.



## AQUAGRADE® GL 315

Rev. Date: 11.20

### NATURE

Aliphatic polyurethanes in water dispersion.

### USE

AQUAGRADE® GL 315 is a glossy topcoat that provides a natural feel and good general fastness. AQUAGRADE® GL 315 forms a medium hard, elastic and flexible film, with a natural gloss. AQUAGRADE® GL 315 is suitable for upholstery but also for footwear and leathers. AQUAGRADE® GL 315 is ready-to-use and can be applied alone or in combination with other AQUAGRADE® topcoats to modify the degree of gloss. The general resistances and fastness can be further improved by adding a crosslinker such as CT 80 (polyisocyanate specific for the bright top-coats) or CT 14/C (polyaziridine).

### PHYSICAL CONSTANTS

	Standard Value	Test Method
Appearance	whitish opalescent liquid	MDA 008
Dry content (%)	15 ± 2	MDA010/011
pH (1:10)	8,0 ± 1	MDA 004
Density (g/cm <sup>3</sup> )	1,01 ± 0,05	MDA 018

### STORAGE

Store in a dry, cool, well ventilated area between +5 and 40°C. Keep from freezing. For safe use of the product, the information given in the safety data sheet should be carefully observed.

### MINIMUM SHELF-LIFE

The product is guaranteed for its physical and quality characteristics for at least 12 months from the date of production. It must be kept well sealed and stored in its original drum according to the conditions in technical and safety data sheet.



# AQUAGRADE® GL 1500

Rev. Date: 11.20

## NATURE

Aliphatic polyurethanes in water dispersion.

## USE

AQUAGRADE® GL 1500 is the very glossy topcoat, ready-to-use after the addition of some isocyanate CT 80 which is the specific crosslinker for glossy topcoats.

AQUAGRADE® GL 1500 is the valid alternative to the bright solvent lacquers since it fixes the leather very well, particularly footwear and leathergoods leather.

The dry milling behaviour of AQUAGRADE® GL 1500 is very good.

AQUAGRADE® GL 1500 can also be utilized as a gloss modifier for upholstery topcoats, possibly in association with dull topcoats in general.

The leather fixed with AQUAGRADE® GL 1500 are characterised by a very pleasant feel, naturally non-slippery maintaining softness and the elasticity of the film with time.

## PHYSICAL CONSTANTS

	Standard Value	Test Method
Appearance	whitish viscous fluid	MDA 008
Dry content (%)	13 ± 2	MDA010/011
pH (1:10)	9,0 ± 1	MDA 004
Density (g/cm <sup>3</sup> )	1,01 ± 0,05	MDA 018

## STORAGE

Store in a dry, cool, well ventilated area between +5 and 40°C. Keep from freezing.

For safe use of the product, the information given in the safety data sheet should be carefully observed.

## MINIMUM SHELF-LIFE

The product is guaranteed for its physical and quality characteristics for at least 12 months from the date of production. It must be kept well sealed and stored in its original drum according to the conditions in technical and safety data sheet.



## AQUAGRADE® M 15

Rev. Date: 11.20

### NATURE

Aliphatic polyurethanes and dulling agents in water dispersion.

### USE

AQUAGRADE® M 15 is a topcoat for upholstery leather, characterized by a good degree of opacity, excellent flow-out properties and a smooth, talc-like feel.

AQUAGRADE® M 15 forms a medium-mate film, non repolishable, that has medium hardness and elasticity.

When required, the degree of opacity can be reduced by adding its homologous glossy topcoat AQUAGRADE® GL 93.

AQUAGRADE® M 15 is applied in its supplied form by spray, with the addition of some crosslinkers such as CT 28 (polyisocyanate) or CT 14/C (polyaziridine) for a notable improvement of wet rub fastness.

### PHYSICAL CONSTANTS

	Standard Value	Test Method
Appearance	whitish fluid	MDA 008
Dry content (%)	15 ± 2	MDA010/011
pH (1:10)	8,0 ± 1	MDA 004
Density (g/cm <sup>3</sup> )	1,00 ± 0,05	MDA 018

### STORAGE

Store in a dry, cool, well ventilated area between +5 and 40°C. Keep from freezing.

For safe use of the product, the information given in the safety data sheet should be carefully observed.

### MINIMUM SHELF-LIFE

The product is guaranteed for its physical and quality characteristics for at least 12 months from the date of production. It must be kept well sealed and stored in its original drum according to the conditions in technical and safety data sheet.



## AQUAGRADE® M 19

Rev. Date: 11.20

### NATURE

Aliphatic polyurethanes and matting agents in water dispersion.

### USE

AQUAGRADE® M 19 is the matt topcoat used in leather finishing, mostly for upholstery and leathersgoods. The property of particular interest is a non-repolishing after final milling.

AQUAGRADE® M 19 forms a film of medium hardness, matt, with dry and slippery touch, similar to proteic coats.

The general fastness of AQUAGRADE® M 19 are good, and can be further increased by adding crosslinkers like CT 28 (polyisocyanate) or CT 14/C (polyaziridine).

AQUAGRADE® M 19 is applied by spray gun as supplied.

### PHYSICAL CONSTANTS

	Standard Value	Test Method
Appearance	whitish liquid	MDA 008
Dry content (%)	15 ± 2	MDA010/011
pH (1:10)	8,5 ± 1	MDA 004
Density (g/cm <sup>3</sup> )	1,02 ± 0,05	MDA 018

### STORAGE

Store in a dry, cool, well ventilated area between +5 and 40°C. Keep from freezing.

For safe use of the product, the information given in the safety data sheet should be carefully observed.

### MINIMUM SHELF-LIFE

The product is guaranteed for its physical and quality characteristics for at least 12 months from the date of production. It must be kept well sealed and stored in its original drum according to the conditions in technical and safety data sheet.



## AQUAGRADE® M 20

Rev. Date: 11.20

### NATURE

Aliphatic polyurethanes and matting agents in water dispersion.

### USE

AQUAGRADE® M 20 is the ready-to-use topcoat for upholstery leather.

AQUAGRADE® M 20 confers a good degree of matt, non repolishable, and a pleasant warm and waxy feel.

AQUAGRADE® M 20 forms a matt, tenacious and elastic film.

AQUAGRADE® M 20 is applied by spray as supplied, with addition of a crosslinker for increasing adhesion and wet-fastness, CT 28 (polyisocyanate) or CT 14/C (polyaziridine).

### PHYSICAL CONSTANTS

	Standard Value	Test Method
Appearance _____	opalescent whitish liquid	MDA 008
Dry content (%) _____	16 ± 2	MDA010/011
pH (1:10) _____	8,0 ± 1	MDA 004
Density (g/cm3) _____	0,97 ± 0,05	MDA 018

### STORAGE

Store in a dry, cool, well ventilated area between +5 and 40°C. Keep from freezing.

For safe use of the product, the information given in the safety data sheet should be carefully observed.

### MINIMUM SHELF-LIFE

The product is guaranteed for its physical and quality characteristics for at least 12 months from the date of production. It must be kept well sealed and stored in its original drum according to the conditions in technical and safety data sheet.



## AQUAGRADE® M 79

Rev. Date: 11.20

### NATURE

Aliphatic polyurethanes and dulling agents in water dispersion.

### USE

AQUAGRADE® M 79 is the matt topcoat for upholstery or footwear leathers.

AQUAGRADE® M 79 forms a medium hard, dull film with good elasticity.

AQUAGRADE® M 79 gives a uniform and non-repolishable dullness with a very pleasant velvet touch.

Wet rub fastness are very good with AQUAGRADE® M 79 and can be further improved by adding a crosslinker such as CT 28 (polyisocyanate) or CT 14/C (polyaziridine).

### PHYSICAL CONSTANTS

	Standard Value	Test Method
Appearance	white liquid	MDA 008
Dry content (%)	15 ± 2	MDA010/011
pH (1:10)	8,0 ± 1	MDA 004
Density (g/cm <sup>3</sup> )	1,02 ± 0,05	MDA 018

### STORAGE

Store in a dry, cool, well ventilated area between +5 and 40°C. Keep from freezing.

For safe use of the product, the information given in the safety data sheet should be carefully observed.

### MINIMUM SHELF-LIFE

The product is guaranteed for its physical and quality characteristics for at least 12 months from the date of production. It must be kept well sealed and stored in its original drum according to the conditions in technical and safety data sheet.



## AQUAGRADE® MATT 10

Rev. Date: 11.20

### NATURE

Aliphatic polyurethanic dullers in water dispersion.

### USE

AQUAGRADE® MATT 10 is the polymeric matting auxiliary, which allows for a non-repolishable high degree of dullness to be obtained, conferring an extremely soft, silky feel to the leather.

When added to high quality grade polyurethane binders, AQUAGRADE® MATT 10 contributes to improving both the degree of opacity and final feel.

It is suitable for fixing upholstery and automotive leather requiring high physical-mechanical resistance. We suggest additions of AQUAGRADE® MATT 10 ranging from 30 to 60% of the weight of the binders in the formulation, depending on the desired effect.

The resulting topcoat can be crosslinked either with CT 28 (polyisocyanate) or CT 14/C (polyaziridine).

### PHYSICAL CONSTANTS

	Standard Value	Test Method
Appearance _____	whitish viscous fluid	MDA 008
Dry content (%) _____	24 ± 2	MDA010/011
pH (1:10) _____	8,0 ± 1	MDA 004
Density (g/cm3) _____	1,02 ± 0,05	MDA 018

### STORAGE

Store in a dry, cool, well ventilated area between +5 and 40°C. Keep from freezing.

For safe use of the product, the information given in the safety data sheet should be carefully observed.

### MINIMUM SHELF-LIFE

The product is guaranteed for its physical and quality characteristics for at least 12 months from the date of production. It must be kept well sealed and stored in its original drum according to the conditions in technical and safety data sheet.



## AQUAGRADE® SUEDE 21

Rev. Date: 10.20

### NATURE

Aliphatic polyurethanes and fillers in water dispersion.

### USE

AQUAGRADE® SUEDE 21 is the special topcoat which produces a very pleasant "nubuck" effect for upholstery and/or footwear leathers.

AQUAGRADE® SUEDE 21 is ready to use, applied by spray and, after drying at a moderate temperature not exceeding 80-85°C is ironed at 120°C with a medium-low pressure, about 50 atm. After having left the leathers rest overnight, it is advisable to dry mill the leathers for about one hour in order to exalt the natural look and the feel.

The mixture to be applied is slightly pigmented to maintain the fullness of the tone and crosslinked with CT 28 (polyisocyanate) or CT 14/C (polyaziridine) in order to guarantee the fastness suitable for the final use.

### PHYSICAL CONSTANTS

	Standard Value	Test Method
Appearance	whitish liquid	MDA 008
Dry content (%)	13 ± 2	MDA010/011
pH (1:10)	9,0 ± 1	MDA 004
Density (g/cm <sup>3</sup> )	1,01 ± 0,05	MDA 018

### STORAGE

Store in a dry, cool, well ventilated area between +5 and 40°C. Keep from freezing.

For safe use of the product, the information given in the safety data sheet should be carefully observed.

### MINIMUM SHELF-LIFE

The product is guaranteed for its physical and quality characteristics for at least 12 months from the date of production. It must be kept well sealed and stored in its original drum according to the conditions in technical and safety data sheet.



## AQUAGRADE® SUPERMATT

Rev. Date: 11.20

### NATURE

Aliphatic dull polyurethane in water dispersion.

### USE

AQUAGRADE® SUPERMATT is the polymeric dulling auxiliary that produces an intense degree of opacity which is non repolishable, with a pleasant velvet feel.

Added to final polyurethane topcoats, AQUAGRADE® SUPERMATT improves mattness and feel and can be used for conventional upholstery as well as automotive leather finishes due to its high physical-mechanical performance.

Depending on the desired effect of opacity required, AQUAGRADE® SUPERMATT can be added up to 80% of the binder weight.

The resulting topcoat can be crosslinked with CT 28 (polyisocyanate) or CT 14/C (polyaziridine) to improve adhesion and general resistance, wet rub fastness in particular.

### PHYSICAL CONSTANTS

	Standard Value	Test Method
Appearance	whitish viscous fluid	MDA 008
Dry content (%)	24 ± 2	MDA010/011
pH (1:10)	8,0 ± 1	MDA 004
Density (g/cm <sup>3</sup> )	0,99 ± 0,05	MDA 018

### STORAGE

Store in a dry, cool, well ventilated area between +5 and 40°C. Keep from freezing.

For safe use of the product, the information given in the safety data sheet should be carefully observed.

### MINIMUM SHELF-LIFE

The product is guaranteed for its physical and quality characteristics for at least 12 months from the date of production. It must be kept well sealed and stored in its original drum according to the conditions in technical and safety data sheet.



## AQUAGRADE® UW 60

Rev. Date: 11.20

### NATURE

Bright aliphatic polyurethane binders in water dispersion.

### USE

AQUAGRADE® UW 60 is a glossy, water-based topcoat with a medium-hard film that can be used alone or together with other AQUAGRADE® topcoats.

AQUAGRADE® UW 60 is suitable for the topcoating of upholstery leathers but can be conveniently used in the proteic finishing of leather for footwear and leathersgoods. In that case, 20-50% of AQUAGRADE® UW 60 is added to protein binders.

AQUAGRADE® UW 60 embosses well, has a very high cold flex resistance as well as repeated wet and dry flex resistance.

AQUAGRADE® UW 60 can be applied by spray or roller coater even without the addition of any crosslinkers, but it should be considered that higher physical values may be achieved by the addition of CT 80 (polyisocyanate specific for the bright top-coats) or CT 14/C (polyaziridine)

The naturalness of the leather and the typical casein touch is kept, whilst the wet rub resistances increase considerably.

### PHYSICAL CONSTANTS

	Standard Value	Test Method
Appearance	yellowish emulsion	MDA 008
Dry content (%)	30 ± 2	MDA010/011
pH (1:10)	8,0 ± 1	MDA 004
Density (g/cm <sup>3</sup> )	1,02 ± 0,05	MDA 018

### STORAGE

Store in a dry, cool, well ventilated area between +5 and 40°C. Keep from freezing.

For safe use of the product, the information given in the safety data sheet should be carefully observed.

### MINIMUM SHELF-LIFE

The product is guaranteed for its physical and quality characteristics for at least 12 months from the date of production. It must be kept well sealed and stored in its original drum according to the conditions in technical and safety data sheet.



## AQUAGRADE® UW 69

Rev. Date: 11.20

### NATURE

Aliphatic polyurethane binders and matting fillers in water dispersion.

### USE

AQUAGRADE® UW 69 is the ready-to-use topcoat characterized by very good flow-out and strong opacity.

Its film is medium-hard but flexible with excellent physical-mechanical resistances, a very good printability and high wet and dry rub fastness.

AQUAGRADE® UW 69 can be used as a topcoat alone or mixed with other AQUAGRADE® products in order to modify the feel and achieve the desired degree of opacity.

Before its use add the crosslinkers CT 28 (polyisocyanate) or CT 14/C (polyaziridine).

### PHYSICAL CONSTANTS

	Standard Value	Test Method
Appearance	whitish milky fluid	MDA 008
Dry content (%)	19,5 ± 2	MDA010/011
pH (1:10)	8,5 ± 1	MDA 004
Density (g/cm <sup>3</sup> )	1,03 ± 0,05	MDA 018

### STORAGE

Store in a dry, cool, well ventilated area between +5 and 40°C. Keep from freezing.

For safe use of the product, the information given in the safety data sheet should be carefully observed.

### MINIMUM SHELF-LIFE

The product is guaranteed for its physical and quality characteristics for at least 12 months from the date of production. It must be kept well sealed and stored in its original drum according to the conditions in technical and safety data sheet.









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