TECHNICAL DATA SHEET

PURONOL WPF

Water repellent for the leather and fur industry

PURONOL WPF is a high-performance water-repellent fatliquor. It is parti-cularly effective for use on all types of leather that are tested by the Maeser method.

We would recommend fixing **PURONOL WPF** with metal salts if the leatheris expected to fulfill highest standards of water resistance.

Areas of application	Water repellent for Chrome-tanned leather Vegetable-tanned leather, provided it is fixed with metal salts
Chemical nature	Synthetic, silicone-based fatliquor with a special emulsifier system.
Physical form	Milky white liquid
Characteristic features	• Anionic • Water content ca. 50 % • pH (100 g/l) ca. 8.5 • High stability in hard water • Can be diluted with hot water (50 – 70 °C) • Capable of being pumped • Does not contain any organic halogen compounds and does not makeany contribution to the AOX content of effluent • Does not contain any solvents, APEO or formaldehyde • Lightfast and heat-resistant The above figures are approximate. A detailed specification is available on request.
Storage 	This product has a shelf life of at least one year if it is stored in its tightlysealed original packaging at temperatures between 0 °C and 50 °C. Drums should be tightly resealed each time material is taken from them, and their contents should be used up as soon as possible after they havebeen opened. • This product should be stirred thoroughly before use.

PROPERTIES

Emulsions of **PURONOL WPF** are distinguished by the following properties.

- They are easy to prepare with water heated to 50 – 70 °C.
- They are slightly alkaline.
- They are resistant to hard water (< 50 °Clark) and monovalent metalsalts.
- At a pH of >4.8, they are compatible with the anionic retanning agents, fatliquors and dyes that are conventionally applied to leather. **PURONOL WPF** is a very effective water repellent.
- It is lightfast and resistant to yellowing at high temperatures.
- Strongly cationic substances such as mineral tanning agents, cationic resins or calcium and magnesium salts can cause it to precipitate, andso it should not be applied at the same time or immediately in advanceof these substances.

Application

PURONOL WPF is recommended for use on all types of leather, especially leather that is tested by the Maeser method. Because of its high fastness, it is also recommended for use on white leather and fur skins and on skinsdyed to pastel shades.

PURONOL WPF is mainly employed as a water repellent for chrome-tanned leather. It can also be applied to leather that has been tanned witha combination of vegetable and synthetic tanning agents, provided it is fixed with metal salts, but the level of water resistance that can be achie-ved is not as high as on leather that has been tanned with mineral salts.

PURONOL WPF does not necessarily have to be fixed separately, but we would recommend fixing it with metal salts if the leather has to fulfil high standards of water resistance.

The following guidelines need to be observed in order to obtain high water repellency.

- Attention needs to be paid to optimizing all processes that promote theeven distribution of chemicals through the cross-section of the leather.

The skin needs to be opened up well at the liming stage.
The pelts must be thoroughly delimed.
The leather needs to be neutralized evenly through the complete cross-section.

- All hydrophilic substances, especially those listed below, should be eliminated from the manufacturing process.

Surfactants (if absolutely necessary, minimum quantities of nonionic surfactants may be used for soaking)

Retanning agents with a high salt content
Liquid dyes containing large proportions of solvents
Dispersing agents, especially those used to promote the penetration of dyes

Fatliquors that contain hydrophilic emulsifiers

- The following methods need to be adopted in order to obtain superiorresults with **PURONOL WPF** types.

Short floats should be used to encourage penetration.
The pH and temperature need to be monitored closely.
Sufficient time needs to be allowed for drumming.
The water repellent should be fixed with metal salts.

We would recommend applying fatliquor and water repellent emulsions together with 0.2 – 0.5 % **PURONOL WPF**, expressed as a proportion of theshaved weight, if the stability of the float is impaired by hard water.

The shades of our dyes and pigments are illustrated in special pocketshade cards.

Please file this leaflet in your “Wet End” binder.

Safety

When using this product, the information and advice given in our Safety Data Sheet should be observed. Due attention should also be given to the precautions necessary for handling chemicals.