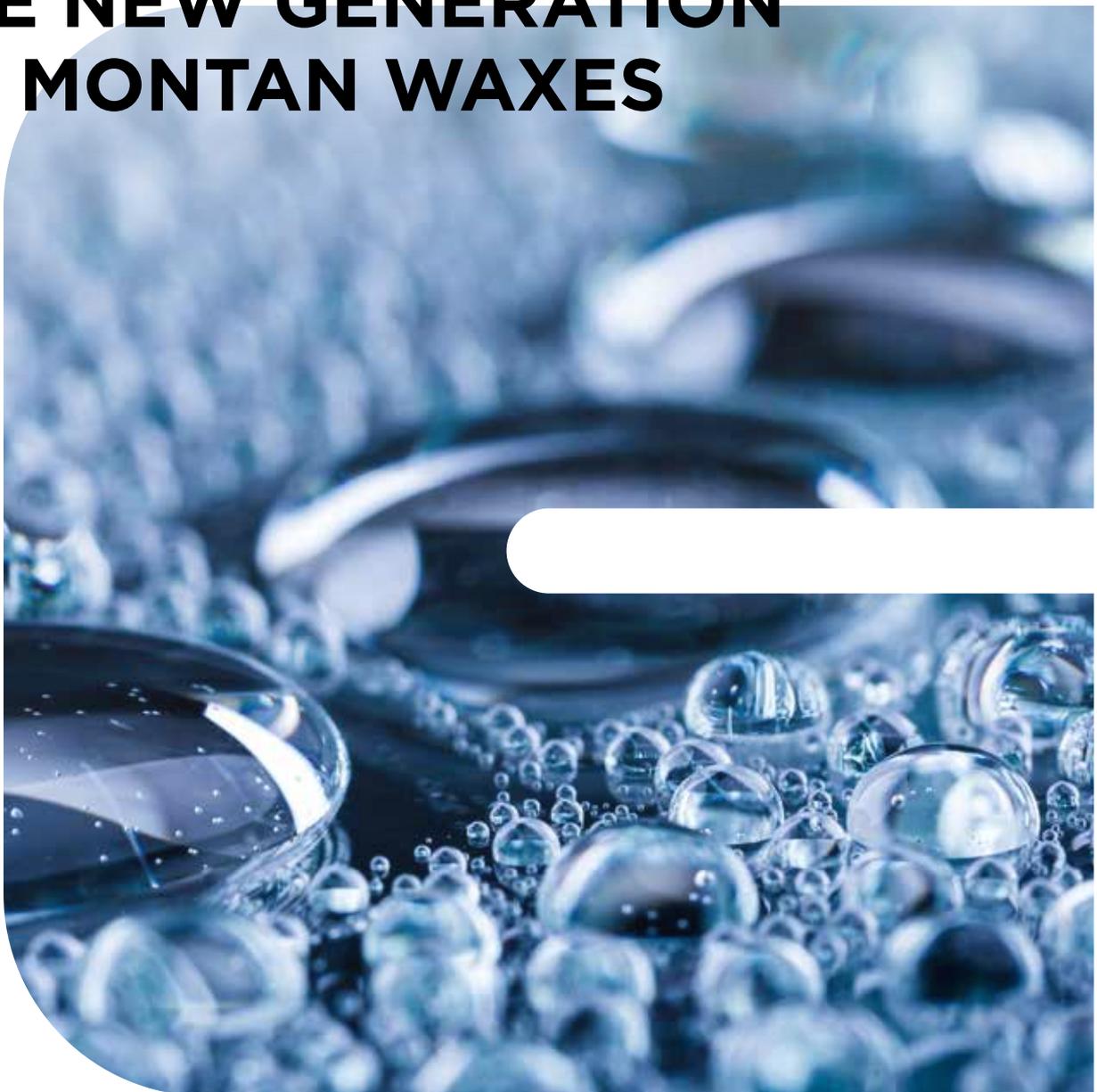


Combining benefits
**THE NEW GENERATION
OF MONTAN WAXES**



Outstanding water resistance – improved breathability

LICOWAX® SC 131 TP
LICOWAX® KC 132 TP

The new generation of montan waxes provides a broad spectrum of applications on flexible and rigid substrates. It protects leather, wood, stone, textile, paper, plastic and metal from water, corrosion, dirt and graffiti and allows the extension of the lifetime of your product without influencing other performance attributes.

PHYSICAL AND CHEMICAL PROPERTIES

Licowax SC 131 TP (Montan-based Acid Wax) and Licowax KC 132 TP (Montan-based Ester Wax) combine typical montan wax characteristics like high gloss and good buffability with the flexibility and excellent adhesion properties of metallocene polymers.

Licowax SC 131 TP

Drop point	[°C]	76-88
Acid number	[mg KOH/g]	95-125
Saponification number	[mg KOH/g]	125-147
Viscosity at 120 °C	[mPa·s]	50-70

Licowax KC 132 TP

Drop point	[°C]	76-85
Acid number	[mg KOH/g]	24-32
Saponification number	[mg KOH/g]	108-136
Viscosity at 120 °C	[mPa·s]	60-80



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HYDROPHOBING EFFECT ON STONE



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HYDROPHOBING EFFECT ON WOOD



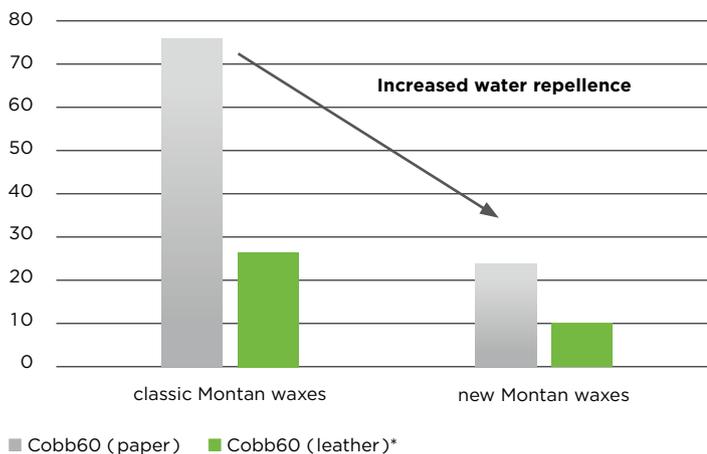
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HYDROPHOBING EFFECT ON LEATHER



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HYDROPHOBING EFFECT ON TEXTILE

PERFORMANCE AND BENEFITS

FIGURE 1: Water Repellency



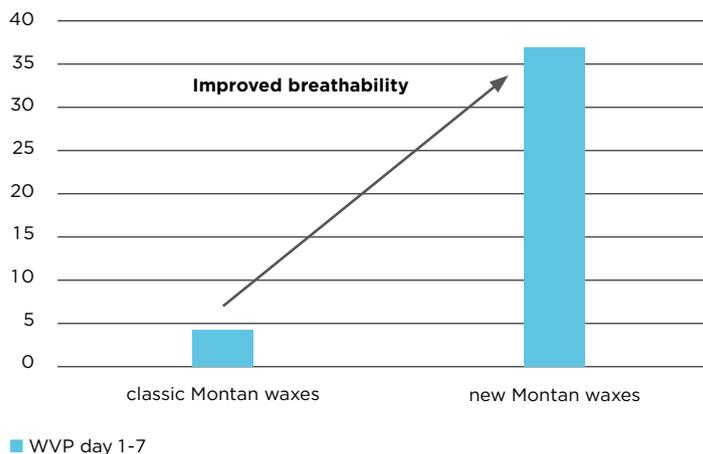
Cobb60 [$\text{g}/\text{m}^2 \text{ min}$]: Water adsorbed by the coated surface during 60 s contact. *For leather, the Cobb60 measurements were performed after application of mechanical stress on the coated surface.

Licowax SC 131 TP and Licowax KC 132 TP not only provide outstanding water resistance with an improved breathability, they also assure optimized physical and chemical properties benefiting the customers.

PERFORMANCE

- Drop point below 100 °C
- Enhanced flexibility
- Increased adhesion and good water resistance
- Improved water vapor permeability

FIGURE 2: Water Vapor Permeability



WVP – Water Vapor Permeability [$\text{g}/\text{m}^2 \text{ h}$]: Average water vapor permeability through coated paper.

BENEFITS

- Easy to handle
- Emulsifiable in open vessels
- Decreased graying or cracks on flexible substrates
- Less corrosion on metal substrates
- Enhanced breathability
- Long lasting coating on flexible and rigid substrates
- Improved anti-slip properties

GUIDE FORMULATIONS



Protection emulsion

20.0	Licowax SC 131 TP
4.5	Diethylaminoethanol (DEAE)
75.5	Deionized water

100.0 Parts by weight



Self shine emulsion

12.0	Licowax KC 132 TP
1.4	Wax emulsifier 4106
0.3	Genapol OX-100
86.3	Water

100.0 Parts by weight



Pasty shoe polish

10.0	Licowax SC 131 TP
5.0	Paraffin wax
5.0	Lanolin
2.0	Wood rosin
2.0	Genapol T 110
0.8	Morpholin
75.2	Water

100.0 Parts by weight

Above mentioned guide formulations are given as an example of how to formulate for different application fields. For water-based formulations, we suggest the use

of common preservatives depending on the climate conditions and handling of the products. For further guide formulations, please contact us.

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