HANSA® LPW 854

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Leather Solutions & Silicone Formulations

HANSA® LPW 854

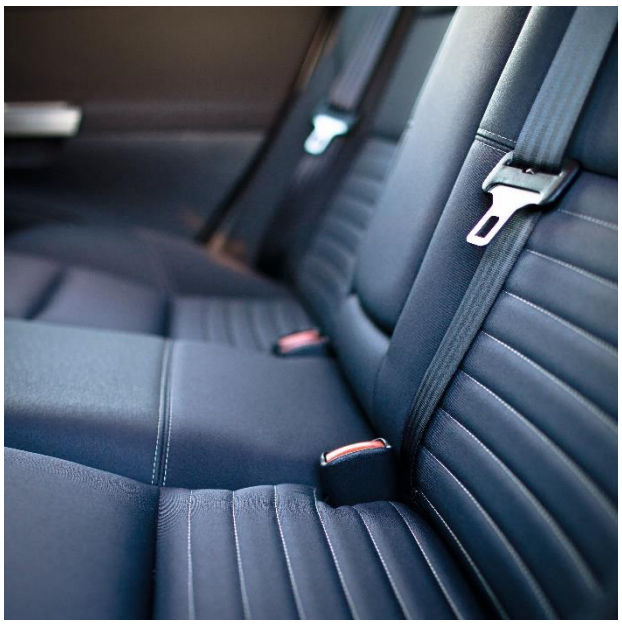
Background

HANSA® LPW 854 is a new silicone gum emulsion, which can be used to improve the abrasion resistance of finished leather while giving a waxy and smooth touch modification.

It provides also gliding properties and good light fastness.

We recommend to use the product for car upholstery or furniture finishing and for the shoe industry.

HANSA® LPW 854 is BTX-free.



Product description

HANSA® LPW 854	
Chemical character	Composition of a high viscosity polydimethylsiloxane
Appearance	White paste
Solid content at 140°C	73 – 77 %
Dilution stability (32 %, at RT)	Stable
Compatibility with standard PU top coat	Very good
Touch modification	Waxy and smooth

Abrasion resistance (TABER)

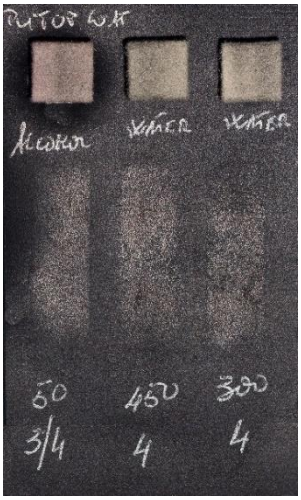
Weight loss after 2000 cycles with CS10 wheel:
0.11 g

Reference: Top coat without silicones

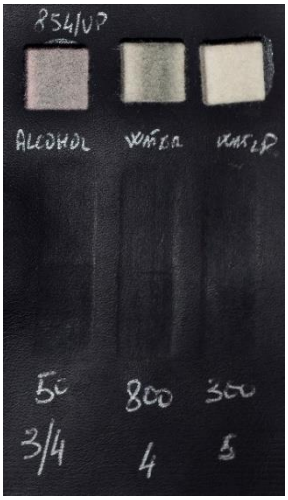
Weight loss after 2000 cycles with CS10 wheel:
0.03 g

Top coat with HANSA® LPW 854

Wet rub fastness* (VESLIC)



Reference: Top coat without silicones



Top coat with HANSA® LPW 854

* Application test made on cow side full grain leather finished for upholstery and leather goods articles; grey scale: 5 = best, 1 = worst

	Water wet rub fastness 1st test		Water wet rub fastness 2nd test		Alcohol wet rub fastness 1st test	
	n° of rubs	grey scale	n° of rubs	grey scale	n° of rubs	grey scale
Top coat without silicone	300	4	450	4	50	3 to 4
Top coat HANSA® LPW 854	300	5	800	4	50	3 to 4

Guide application recipe for car upholstery or furniture finishing

PUD (solid content 18%)	100 parts
Water	30 parts
Isocyanate crosslinker	5 parts
Silicone (e. g. HANSA® LPW series; max. solid content 40 %)	6 parts

Application of the top coat formulation on leather

- Spray 2 crosses for a total amount of 2.5 g/sqf
- Store overnight to let product react with the leather surface
- Dry milling for 3 hours
- Iron at 100°C with a pressure of 50 kg for 1 sec

Guide recipe for formulating a water based polyurethane dispersion with a solid content of 18 %

Components	**Amount (g)**
Colloidal nanosilica (16 % solid content)	94
Polyurethane for dry touch (45 % solid content)	89
Polyurethane for gummy touch (35 % solid content)	111
Matt polyurethane without silica (30 % solid content)	161
Defoamer (e. g. HANSA® AFC 5020)	2
Demineralized water	528
PU thickener (50 % solid content)	15
Total	**1,000**

You need further information?
Please contact us under e-mail: leather@cht.com

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