

Starting Formulation, CAR - 4950

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End-Use Homecare

Tire Shine – Surfactant free Pickering Emulsion

Sprayable, surfactant free emulsion with hydrophobic effect and high gloss on the tire

Utilizing BYK-1797 and LAPONITE-RD

Formulation

Pos.	Component	Supplier	Function	Weight [g]
1	Demineralized water		Solvent	79.05
2	Sodium chloride (NaCl)	Multiple	Electrolyte	0.05
3	LAPONITE-RD (100%)	BYK	Emulsifier	0.90
4	BYK-1797 (100%)	BYK	Surface protection and gloss	20.00
				100.00

Instructions

- Weigh the required amount of water, set mixing on a homogenizer to approx. 1,500 rpm
- Add the sodium chloride to the water
- Weigh the BYK-1797 into a separate container or syringe and the LAPONITE-RD into a weighing boat

Turn off the homogenizer and carry out each of the following steps in immediate succession

- Add the BYK-1797 and the LAPONITE-RD
- Stir the mixture for 10 minutes at 10,000 rpm

Allow the formulation to cool and fill in the desired spray bottles. The formulation is a white, low viscous fluid immediately after preparation and develops a soft thixotropic behavior within a few hours.

Characteristic Data/ Specification

Data	Unit	Value
LAPONITE content	%	0.9
Silicone content	%	20.0
Ratio BYK-1797 : LAPONITE		100 : 4.5

Further information / Application

The tire shine emulsion is designed to be used as is.

Spray a thin layer of the formulation on the tire wall. The products forms a transparent, glossy and water repelling coating after drying.

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This issue replaces all previous versions.