

TEGOTOP® 210

Novel Lotus-Effect® concentrate for transparent care products

- Treated surfaces are self-cleaning in the rain or when rinsed with water
- Surfaces become dirt and dust repellent
- Easy spray-on application
- Long lasting effect; easy to remove if needed
- Transparent system

Chemical and physical properties (not part of specifications)

Form (20 °C)	white turbid liquid
Density (g/cm ³)	0.97
Viscosity (20 °C acc. to Brookfield mPas)	30 (thixotropic)

Properties

TEGOTOP® 210 is a concentrated dispersion of super-hydrophobic nano-particles designed to equip a multitude of surfaces with the Lotus-Effect®. Treated surfaces result in a nano-structured layer where the adhesion of dust and dirt is reduced to a minimum. In addition, water is repelled from the surface with contact angles above 160 ° and higher (nearly a ball shaped droplet). Surfaces become dirt repellent and self-cleaning when subjected to rain or rinsing with plain water.

A new production process ensures that particles are below 450 nm in size and virtually invisible.

The coating is semi-permanent and will last for weeks under regular weather conditions. However, it is easy to remove with a wipe of a cloth or a detergent.

Further information on the Lotus-Effect®: W. Barthlott, C. Neinhuis, Purity of the sacred lotus, or escape from contamination in biological surfaces, *Planta* 202 (1997) 1-8.

<http://www.lotus-effect.de>

Applications

TEGOTOP® 210 can be applied to all kinds of surfaces which are exposed to weathering conditions. Applications include all kind of glossy surfaces e. g. – aluminium car rims, car body as well as glass – mirrors and stainless steel.

TEGOTOP® 210 can only be used as a spray application. It can be sprayed out of a trigger or preferably by an aerosol.

TEGOTOP® 210 is a concentrate and should be diluted with volatile cyclic silicone fluids like Cyclo-methicone (TEGO® Polish Additiv 5) or short chain silicone fluids (Di- or Trisiloxanes).

Other solvents are possible but could interfere the optical appearance.

The recommended dilution level is 15 % to 25 % of TEGOTOP® 210, depending on the application.

Due to the small particle size, TEGOTOP® 210 should not be used on matt, coarse surfaces like wood, for these surfaces TEGOTOP® 105 is the better recommendation.

Spray distance out of an aerosol should be 15 – 30 cm in order to provide an even distribution. It is necessary to dose the amount of sprayed material carefully. A thick layer on the surface results in a whitening effect. Appearance may be less appealing. Note, that the Lotus-Effect® itself will not become more efficient by using more material than needed.

Packaging

25 kg

Storage stability

The product can be stored in sealed original package at temperatures 0 °C and 40 °C for at least 12 months after date of delivery.

Please homogenize product before use.

Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in case of accidents and fires
- toxicity and ecological effects

is given in our material safety data sheets.

Guideline Formulations

Trigger Spray for Glass or Painted Surfaces	
TEGOTOP® 210	22 %
TEGO® Polish Additiv 5	78 %

Trigger Spray, quick dry	
TEGOTOP® 210	18 %
Dimethicone	82 %

Trigger Spray for Car Rims	
TEGOTOP® 210	15 %
Dynasilan® OCTEO	2 %
TEGO® Polish Additiv 5	83 %

Trigger Spray for non-glossy surfaces	
TEGOTOP® 210	20 %
TEGOPREN® 6814	1 %
TEGO® Polish Additiv 5	79 %

Aerosol*	
TEGOTOP® 210	24 %
TEGO® Polish Additiv 5	36 %
Aerosol Propellant:	
Propane/Isobutane	22 %
n-Butane	18 %

*Aerosol development in cooperation with Colep CCL, Laupheim, Germany

Consumer Specialties – Household Care

www.degussa-household-care.com | info-household-care@evonik.com

Legal References

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