

TECHNICAL DATA SHEET

IGL Coatings™ Ecocoat Headlight

Material no.

Specification

Version

154291

1.13

Revision date

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IGL Coatings Ecocoat Headlight is a coating system for hydro- and oleophobic treatment and UV inhibitor of thermoplastics.

Description

Ecocoat Headlight is a user-friendly coating system for all thermoplastics. Ecocoat Headlight adheres to the thermoplastics on the molecular level and crosslink to create a glass like finish with amplified shine and clarity and superb protection against oxidation and loss of clarity for up to 12 months. Coated surfaces will gain a crystal like clarity, improved scratch-resistant, long-term clarity retention, outstanding weathering resistance and excellent finish quality coating system. The consumption of the solution depends on the application method, mostly about 1-5 ml/m² are sufficient.

Technical data

Property	Value	Method
Flash point	-22°C	DIN 51755
Boiling point	69°C	DIN 51755
Vapor Pressure	16kPa (at 20°C)	D 5190

Applications

Treatment of thermoplastic parts.

Processing

- Do not apply the product at temperature below 5°C!
- Do not expose surfaces to be treated to sunlight. Make sure that the surface is not hot.
- Provide adequate ventilation and fresh air!
- If the surface was treated in the past with a different coating system, proper removal with a polishing agent is crucial.

Step 1: Cleaning the surface

Before the application of this mixture, the substrate has to be cleaned. Keep the mixture unstirred. The temperature during processing should be in the range of 5-40°C, preferably 20-26°C.

In order to permit sufficient chemical bonding of Ecocoat Headlight to the substrate, the surfaces have to be carefully cleaned before the application. The long-term stability and abrasion resistance of the coating depends on how well Ecocoat Headlight is chemically bonded.

The surface to be treated is recommended to eliminate iron fouling with Ecoclean Iron. Wash off residues and dry thoroughly before degreasing with appropriate substrate cleaner or ecoclean precoat. Wash the surface again with water to ensure proper removal of any leftover film on surface. Use of a tack rag is recommended.

The degreasing ensures a completely clean and reactive thermoplastic surface. Just after the cleaning, the surface should be coated.

Step 2: Treatment process

Direct exposure to sunlight during application should be avoided. Place a few drops of Ecocoat Headlight onto the provided microfiber application cloth in a vertical direction. Apply the coating lightly in a on the headlight vertically then horizontally motion, always ensuring an overlapping coated area.

Wait for about 30 seconds to 1 minute (or when there is a small resistance in buffing) then buff off with a clean dry microfiber cloth. Continue the process on the following area. Allow coating to cure for 1 hours (5-50°C) then apply a second layer. Do not

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let the film dry sporadically. If it dries within 1 hours, the film can be removed with a small amount of Ecocoat Headlight. If it has been allowed to harden for more than 12 hours, it will need to be polished off and reapplied.

A hydrophobic effect generally can be seen depending on the substrate, reactivity and temperature after its initial curing stage and is further enhanced after a few minutes.

After application the coating should be air-dried for about 4 hour and avoid water contact.

Curing Time

- ready to be buffed off in 30 seconds to 1 minute
- ready to be layered in 1 hour (5-50°C), 15 minute (infrared short wave), 15-20 minutes (infrared medium wave)
- full cure in 3-5 days. During this period the car should not be driven into a vehicle wash with any harsh shampoo, APC or anything containing caustic soda. This will damage the hydrophobic properties. Coated car can be washed with just plain water during this period.

Cleaning and Maintenance

Surfaces coated with Ecocoat Headlight should be cleaned with cleaners in the pH range 3-9. Strong (mineral) acids or alkalis should be avoided and are also unnecessary as neutral cleaners are generally sufficient to clean headlights coated with Ecocoat Headlight.

Safety and handling

Before considering the use of IGL Coatings products please read its Material Safety Data Sheet (MSDS) thoroughly for your safety and toxicological data as well for information on proper transportation, storage and use. The Material Safety Data Sheet is available upon request via email from sales@iglcoatings.com

Disposal:

The product residue remaining in incompletely emptied flasks may be disposed of only by bringing it to the municipal collection point for hazardous waste. For proper disposal of completely emptied flasks, first dry them out by exposing them to fresh air. Once dry, they may be safely recycled.

Packaging and storage

Ecocoat Headlight is delivered in glass bottles (30ml)

Ecocoat Headlight is storage-stable for at least 12 months in originally sealed containers. Opened bottles should be used within 6 months.

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