

TECHNICAL DATA SHEET

IGL Coatings™ Ecocoat Headlight



Material no. **154291** Revision date **24.05.2019**
Version **1.14**

IGL COATINGS ECOCOAT HEADLIGHT

A COATING SYSTEM FOR HYDRO AND OLEOPHOBIC TREATMENT AND UV INHIBITOR OF HEADLIGHT.

DESCRIPTION

ecocoat headlight is a user-friendly ceramic coating system for all thermoplastics. **ecocoat headlight** adheres to thermoplastic surface on the molecular level and crosslink to create a glass-like finish with amplified shine and clarity with superb protection against oxidation and loss of clarity for up to 12 months. Coated surfaces will gain a crystal-like clarity, improved micro-marring resistant, long-term clarity retention, outstanding weathering resistance and excellent finish quality ceramic coating system. The consumption of the product will depend on the application method, approximately 1-5 g/m² is sufficient for most applications.

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 vehicles headlight or polycarbonate parts.

Processing

- Do not apply the product at temperature below 5°C (41°F).
- Do not expose surfaces to be treated to direct sunlight before and during application.
- The surface must not be hot during application.
- Provide adequate ventilation and fresh air during application.
- If the substrate was previously treated with a coating system, proper removal, preferably with a polishing agent is important to ensure that the products bonds with the surface.

Step 1: Cleaning the surface

- The temperature during application should be in the range of 5-40°C (41-104°F), **preferably 20-26°C (68-78.8°F)**.
- In order to permit sufficient chemical bonding of **ecocoat headlight** to the substrate, the surface must be carefully cleaned of all contaminants before the application. The long-term stability and abrasion resistance of the coating depends on how well **ecocoat headlight** has chemically bonded with the surface.
- It is highly recommended to polish the surface with an abrasive system to remove all hard bearing contaminations on the surface.
- Use **ecoclean wash** to thoroughly remove all remaining residue and leftover film on the surface.
- Dry the surface before degreasing the surface with **ecoclean multi** or **ecoclean precoat**. It is recommended to use the IGL Microfiber Cloth for degreasing. The degreasing ensures a completely clean and reactive surface.
- Coat the cleaned surface immediately after cleaning to prevent any contamination.

Step 2: Treatment process

- Keep the mixture unstirred.
- Place a few drops of **ecocoat headlight** on the provided application cloth in a vertical direction.
- Apply the product lightly on the surface in a 3x3 feet area, in a vertical (up and down) then horizontal (left to right) motion.
- Always ensure the areas coated are overlapping.
- Wait for about 0.5-1 minute (or when there is a small resistance in buffing) then buff off with a clean dry IGL Microfiber Cloth.

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- Allow coating to cure for 1 hour (5-50°C or 41-122°F) then apply a second layer and buff off with after 0.5 till 1 minute with a clean dry IGL Microfiber Cloth

Important Note: Do not 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 with an abrasive system and reapplied.**

- The 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.
- Air dry the coated surface after application for approximately 4 hours and avoid contact with water.

Curing Time

- The applied coating will be ready to be buffed off in 0.5-1 minute.
- The coating will be ready to be layered as follows
 - 1 hour (5-50°C or 41-122°F); or
 - 15 minutes (infrared short wave); or
 - 15-20 minutes (infrared medium wave).
- The applied coating will fully cure in 3-5 days.
- During this period the surface should not be washed with any harsh shampoos, all-purpose cleaners or any product containing caustic soda. **This will damage the hydrophobic properties.**
- If necessary, the coated surface may be washed with just normal 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 vehicles coated with **ecocoat headlight**.

Safety and handling

For your safety, toxicological data and information on property transportation, storage and use, please read the Material Safety Data Sheet (MSDS) before using any **IGL Coatings products**. The MSDS is available upon request via email from sales@iglcoatings.com.

Disposal:

Dispose product residue in incompletely emptied bottles by bringing it to the municipal collection point for hazardous waste. To safely dispose of the completely emptied bottles, dry the bottles out by exposing the bottles to air. The bottles may be recycled once completely dried.

Storage

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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