

TECHNICAL DATA SHEET

IGL COATINGS™ ECOCOAT SHIELD



Material no. **154320** Revision date **26.10.2023**
Version **2.00**

IGL COATINGS ECOCOAT SHIELD

A COATING SYSTEM FOR HYDRO AND OLEOPHOBIC TREATMENT OF PAINT PROTECTION FILMS.

Description

ecocoat shield is a user-friendly graphene-infused ceramic coating system for almost all types of paint protection films. **ecocoat shield** is micro-marring resistant, has long-term gloss retention, outstanding weathering resistance, and an excellent finish quality coating system. The consumption of the product will depend on the application method, approximately 1-5 ml/m² is sufficient for most applications.

Technical data

Property	Value	Method
Flash point	58°C	DIN 51755
Boiling point	126°C	DIN 51755
Density	0.81 g/cm ³	ASTM D792

Applications

Treatment of paint protection films (PPF).

Processing

- Do not apply the product at temperatures below 5°C (41°F).
- Do not expose the surfaces to be treated to direct sunlight before or during application.
- The surface must not be hot during application.
- Provide adequate ventilation and fresh air during application.

REMINDER: Always test on an inconspicuous area first. Kindly contact your local IGL Coatings representative if you need advice.

Step 1: Cleaning the surface

- The temperature during application should be in the range of 5-50°C (41-104°F), **preferably 20-26°C (68-78.8°F)**.
- In order to permit sufficient chemical bonding of **ecocoat shield** to the substrate, the surfaces must be carefully cleaned of all contaminants before the application. The durability of the coating depends on how well **ecocoat shield** has chemically bonded with the surface.
- The additional use of **ecoclean iron** is recommended to remove iron particles or fallout.
- Use **ecoclean wash** to thoroughly remove all remaining residue and leftover film on the surface.
- Dry the surface before degreasing the surface with **ecoclean precoat**. It is recommended to use the IGL Microfiber Cloth for degreasing. The degreasing ensures a completely clean and reactive film surface.
- Coat the cleaned surface immediately after cleaning to prevent any contamination.

Step 2: Treatment process

- Shake **ecocoat shield** well before application to ensure the mixture is homogeneous.
- Place a few drops of **ecocoat shield** on the provided application cloth in a vertical direction.
- Apply the product lightly on the surface in a 1x1 feet area, in a vertical (up and down), then horizontal (left to right) motion. If applying at higher temperatures and/or humidity, apply in smaller areas. Level the coating using a clean and dry IGL Microfibre Cloth within 1 minute.
- Always ensure the areas coated are overlapping.

Important Note: Do not let the film dry sporadically. If it dries within 0.5-1 hour, the film can be removed with a small amount of **ecocoat shield** or **ecoclean multi**. If removed with **ecoclean multi**, wipe off any residue before re-applying **ecocoat shield**.

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- 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 hours.
- Air dry the coated surface after application for approximately 2 hours and avoid contact with water.

Curing Time

- The applied coating will fully cure in 3-5 days.
- During this period, the surface should not be washed with harsh shampoos, all-purpose cleaners, or any caustic soda product. **This will damage the hydrophobic properties.**
- If necessary, the coated surface may be washed with just normal water during this period.
- **ecocoat premier** can be applied on the surface coated with **ecocoat shield** to prevent the formation of water spots during the 3-5 days full curing period.

Cleaning and Maintenance

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

Safety and Handling

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

Disposal

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

Storage

ecocoat shield is storage-stable for at least 12 months in originally sealed containers. Opened bottles should be stored properly and used up as soon as possible.

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