

TECHNICAL DATA SHEET

IGL COATINGS™ ECOCOAT ARCANE



Material no. **154387** Revision date **31.10.2025**
Version **1.01**

IGL COATINGS ECOCOAT ARCANE

A COATING SYSTEM FOR HYDRO AND OLEOPHOBIC TREATMENT OF PAINTS (ALKYD, ACRYLIC, POLYURETHANES, EPOXIES).

Description

Ecocoat Arcane is a user-friendly and VOC-free single-layer graphene-reinforced ceramic coating system for almost all types of painted surfaces. **Ecocoat Arcane** exhibits enhancement in the aspect of micro-marring resistance, long-term gloss retention, outstanding weathering resistance, and excellent durability, smoothness, and finish quality ceramic 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	>70°C	ISO 3679: Close cup
Boiling point	180-220°C	DIN 51755
Specific Gravity	0.972 (at 25°C)	DIN 51757

Applications

Treatment of all type of painted surfaces.

Processing

- Do not apply the product at temperatures below 5°C (41°F).
- Do not expose the surfaces to be treated to direct sunlight.
- 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.

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 surface temperature during application should be in the range of 5-40°C (41-104°F), **preferably 20-26°C (68-78.8°F)**. At higher surface temperature (>30°C) and humidity (>50% r.h), applicator will need to be more careful to not allow coating to cure before leveling.
- In order to permit sufficient chemical bonding of **Ecocoat Arcane** to the substrate, the surface must be carefully cleaned of all contaminants before the application. The durability of the coating depends on how well **Ecocoat Arcane** 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.
- 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 paint surface.
- Coat the cleaned surface immediately after cleaning to prevent any contamination.

Step 2: Treatment process

- Avoid exposing the surface to direct sunlight during application.
- Place a few drops of **Ecocoat Arcane** on the provided application cloth in a vertical direction.

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- 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 temperature and/or humidity, apply in smaller areas. Level the coating using a clean and dry IGL Microfibre Cloth within 3-5 minutes (or when there is a small resistance in buffing).
- At higher surface temperatures (>30°C) and humidity levels (>50% r.h.), a shorter buff-off time of 1-3 minutes is recommended, or when slight resistance is felt during buffing.
- 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 Arcane. If film has hardened 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 hours.
- Air dry the coated surface after application for approximately 2 hours and avoid contact with water.

Curing Time

- The applied coating will initially cure under the following conditions:
 - 30 minutes at temperatures above 50°C (122°F), or
 - 15 minutes using infrared short wave, or
- 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 cleaning is 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 Arcane** to prevent the formation of water spots during the 3-5 days full curing period.

Cleaning and Maintenance

Surfaces coated with **Ecocoat Arcane** should be cleaned with cleaners in the pH range 3-9. Strong acids or alkalis should be avoided and are also unnecessary as neutral cleaners are generally sufficient to clean vehicles coated with **Ecocoat Arcane**.

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 sales@iglcoatings.com.

Disposal

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

Storage

Ecocoat Arcane is storage-stable for at least 12 months in originally sealed containers.

Opened bottles should be kept properly and used up as soon as possible.

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