

TECHNICAL DATA SHEET

IGL Coatings™ Ecocoat Window

Material no.

Specification

Version

154287

1.13

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IGL Coatings Ecocoat Window is a 2-component coating system for hydro- and oleophobic treatment of e.g. glass and ceramic surfaces.

Description

Ecocoat Window is a user-friendly 2-component coating system for smooth surfaces such as glass. The right amount of formulation is achieved by mixing the two components 1:1 (by volume). This total formulation is ready for application after about 3 minutes of shaking or stirring. It should be used within 1 day. This gives the user flexibility in designing the working steps and prevents waste. The consumption of the ready-to-use solution depends on the application method, mostly about 10-50 ml/m² are sufficient.

Technical data

Property	Value	Unit	Method
Flash point	<15°C	Ecocoat window e1	DIN 51755
Density (20°C)	0.8 g/cm ³	Ecocoat window e1	DIN 51757
Viscosity (20°C)	2 mPA.s	Ecocoat window e1	DIN 53015
Flash point	18°C	Ecocoat window e2	DIN 51755
Density (20°C)	0.89 g/cm ³	Ecocoat window e2	DIN 51757
Viscosity (20°C)	3.7 mPA.s	Ecocoat window e2	DIN 53015

Applications

Treatment of windshields:

- Better visibility in the rain, particularly on throughways and rural roads
- In winter: obviates time-consuming de-icing
- In summer: insect splatter easier to remove

Easy to Clean glass components of shower stalls, sanitary ceramics:

- Lime and soap residues easy to remove
- Aggressive cleaning agents are not needed. A wet cloth is generally sufficient.

Easy to Clean surfaces on other glass objects (e.g. greenhouses, canopies, skylights, etc.):

- The cleaning cycle is extended
- Less Cleaning agent is needed
- Dirt is easier to remove

Processing

- Do not apply the product at temperature below 10°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 water repellent material, repeat cleaning with a polishing agent is crucial.

Step 1: Mixing the coating formulation

Mixing the formulation at room temperature is recommended. Before treating the surface, Ecocoat Window E2 should be mixed with Ecocoat Window E1 1:1 (by volume, e.g. 2 x 15 ml). The obtained formulation should be shaken for a minimum of 3 minutes. After the solution is ready to use, and has to be used within 1 day.

Before the application of this mixture, the substrate has to be cleaned. Meanwhile keep the mixture unstirred. The temperature during processing should be in the range of 10-30°C, preferably 15-25°C.

Step 2: Cleaning the surface

In order to permit sufficient chemical bonding of Ecocoat Window 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 Window is chemically bonded.

The surfaces to be treated can be cleaned with a commercial glass cleaner. After that they should be polished until the surface is dry. For an optimum pre-treatment of the surface, especially for automotive glass, we recommend an abrasively cleaning with IGL Coatings ecoclean

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glass+ slurry. The slurry should be shaken thoroughly before use. The slurry can be applied with a cotton cloth or paper towel and should be polished uniformly as a thin liquid film for several minutes.

The dried ecoclean glass+ is wiped off with a clean dry paper cloth (it may have to be repolished several times with a new paper cloth). The ecoclean glass+ should be completely removed. The abrasive cleaning ensures a completely clean and reactive glass surface. Just after the abrasive cleaning, the surface should be coated.

Step 3: Treatment process

Direct exposure to sunlight during application should be avoided. In the case of windshield treatment, the two halves of the windshield (left/right) should be treated one after the other. A certain amount of the Ecocoat Window formulation obtained in Step 1 is applied as a thick liquid film and should be polished quickly and uniformly with the provided application cloth for at least ½ - 1 minute. In case the solvent evaporates before it has been uniformly polished in, more formulations need to be applied. Do not let the film dry sporadically during the application process. After the 1 minute mark, excess solution should be polished off with the same application cloth until the streak is minimal. Proceed to 2nd half of the windshield. Residues of dried formulation and grey streaks can be polished off completely using a clean piece of paper towel or microfiber cloth after 1 hour. Persisting residues can be polished off completely using a small amount of Ecocoat Window formulation and a clean paper cloth.

A hydrophobic effect generally can be seen depending on the substrate, reactivity and temperature after about 5-15 min and is further enhanced after a few minutes.

After removing the dried residue of the formulations, the coating should be air-dried for about 30 minutes. In the case of windshield treatment please do not use the wipers during this time.

Renewing Already Coated Glass Surfaces,

The coating with Ecocoat Window is long-lasting. Once the effect wear off, the surface can be re-coated, For a recoating the cleaning with ecoclean glass+ and the application of Ecocoat Window are done in the same way as the first treatment. If the glass was treated with a different coating before, repeated treatment with an abrasive cleaner is vital.

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.

Usage:

The use of Ecocoat Window on windshields does not mean that you can do completely without windshield wipers. In particular, worn windshields wiper blades and glycol-containing windshield cleaners can cause streaks to form. In this case, replace the blades and do not use any glycol-containing antifreeze agents in the windshield fluid reservoir. Turn on the windshield wipers if necessary to provide the driver with a clear view.

Packaging and storage

The two-component product Ecocoat Window is delivered in two separate bottles (30ml/60ml)

Ecocoat Window e1 and e2 is storage-stable for at least 12 months in originally sealed containers. The mixed formulation must be used within 1 day.

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