TECHNICAL DATA SHEET

IGL COATINGS™ INDUSTRIAL SOLUTION GLASS

Material no.

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IGL COATINGS INDUSTRIAL SOLUTION GLASS

A 2-COMPONENT COATING SYSTEM FOR HYDRO AND OLEOPHOBIC TREATMENT OF GLASS AND CERAMIC SURFACES.

Description

Industrial Solution (IS) Glass is a user-friendly 2-component coating system for glass surfaces. The right amount of formulation is achieved by mixing the two components at a ratio of 1:1 (by volume). This mixture is ready for application after about 1 minute 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 product will depend on the application method, approximately 1-5 ml/m^2 is sufficient for most applications.

Technical Data

Property	Glass E1	Glass E2	Method
Flash point	<15°C	18°C	DIN 51755
Density	0.8 g/cm^3 (at 20°C)	0.89 g/cm^3 (at 20°C)	DIN 51757
Viscosity	2 mPA.s (at 20°C)	3.7 mPA.s (at 20°C)	DIN 53015

Applications

Easy-to-clean glass components of shower stalls, sanitary ceramics:

- Lime and soap residues can be removed easily.
- Aggressive cleaning agents are not needed. Wipe with 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 temperatures below 10°C (41°F).
- Do not expose the surfaces to be treated to direct sunlight prior to or 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 **IS Glassclean+** to ensure that the product 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: Mixing the coating formulation

- Mixing the formulation at room temperature is recommended.
- Before treating the surface, **IS Glass E2** should be mixed with **IS Glass E1** at a ratio of 1:1 (by volume, e.g. 15ml +15ml). The mixture should be shaken for at least 3 minutes to ensure the mixture is well mixed.
- After the mixing process, the mixture is ready to use and has to be used within 1 day.
- Before the application, the substrate has to be cleaned.
- The temperature during processing should be in the range of 10-30°C (50-86°F), **preferably 15-25°C (59-77°F).**

Step 2: Cleaning the surface

- In order to permit sufficient chemical bonding of **IS Glass** to the substrate, the surfaces have to be carefully cleaned before the application. The durability of the coating depends on how well **IS Glass** is chemically bonded with the substrate.
- For optimum pre-treatment of the surface, abrasive cleaning with **IS Glassclean+** is recommended.

- **IS Glassclean+** should be shaken thoroughly before use. The slurry can be applied with a sponge or paper towel and should be polished uniformly for several minutes until a thin water film is obtained.
- The dried **IS Glassclean+** should be wiped off with a clean dry paper cloth or rinse off with water. Repeat several times until the slurry is completely removed.
- The abrasive cleaning ensures a completely clean and reactive glass surface.
- After the abrasive cleaning, dry the surface with a clean cloth. The surface should be coated immediately.

Step 3: Treatment process

- Direct exposure to sunlight during application should be avoided.
- A certain amount of the mixture is applied as a thick liquid and should be polished quickly and uniformly in a vertical (up and down), then horizontal (left to right) direction with the provided application cloth for at least ½ to 1 minute. If the coating evaporates before it has been uniformly polished, more **IS Glass** must be applied.
- After 1 hour, buff off the excess solution with a clean microfiber towel. Resistance will be felt during buffing off. Persistent residues can be removed using a small amount of **IS Glass**.
- Always ensure the areas coated are overlapping when attempting to apply on glass surface section by section.
- Allow the coating to dry for 1 hour then buff off using the dry IGL Microfiber Cloth to remove excess coating residue.
- The hydrophobic effect generally can be seen depending on the substrate, reactivity, and temperature after 1 hour and is further enhanced after a few hours.
- The coating should be air-dried for about 4 hours and avoid contact with water.

Re-coating Coated Glass Surfaces

The hydrophobic and oleophobic effects of **IS Glass** are long-lasting. Once the effect wears off, the surface can be re-coated. To re-coat the surface, remove the previous coating residue with **IS Glassclean+** (Refer to Step 2) and then apply **IS Glass** (Refer to Step 3). If the surface was previously treated with a different coating, repeated cleaning with **IS Glassclean+** is vital.

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 they are dried.

Storage

IS Glass E1 and **E2** is storage-stable for at least 12 months in originally sealed containers.
The mixed formulation must be used within 1 day. Opened bottles must be stored properly and used up as soon as possible.