

TECHNICAL DATA SHEET

IGL COATINGS™ INDUSTRIAL SOLUTION MITHRIL



Material no.

154374

Revision date

25.6.2023

Version

1.0

IGL COATINGS INDUSTRIAL SOLUTION MITHRIL BOOSTED

LONG LASTING GRAPHENE-REINFORCED COATING SYSTEM FOR HYDRO AND OLEOPHOBIC TREATMENT.

Description

Industrial Solution (IS) Mithril Boosted is a user-friendly graphene-reinforced ceramic coating system for multiple surfaces. **IS Mithril Boosted** exhibits enhancements in the aspects of hydrophobicity, durability, water slip, as well as chemical resistance, and weathering resistance. The consumption of the product will depend on the application method.

Technical Data

Property	Value	Method
Flash point	22°C	DIN 51755
Boiling point	97.8°C	DIN 51755
Specific Gravity	0.9 (at 20°C)	DIN 51757

Applications

Applicable to all kind of metal, plastic, glass and 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 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 product bonds with the surface.

REMINDER: Always test on an inconspicuous area first. Kindly contact your local IGL Coatings representative if you need advice. May damage some shiny plastic surfaces.

Step 1: Cleaning the substrate 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 temperatures (>30°C) and humidity (>50% r.h), the applicator will need to be more careful to not allow coating to cure before leveling.
- To permit sufficient chemical bonding of **IS Mithril** to the substrate, the surface must be carefully cleaned of all contaminants before the application.
- It is highly recommended to polish the surface with an abrasive system to remove all hard-bearing contamination on the surface.
- Grease can be removed using a degreaser. Rust present on the surface should be removed chemically or mechanically.
- Coat the cleaned surface immediately after cleaning to prevent any contamination.

Step 2: Application process

- Shake **IS Mithril** well before application to ensure the mixture is homogeneous.
- **IS Mithril** can be applied via spraying or wiping. For spraying application, kindly contact IGL representative for more info.
- For application via wiping technique, place a few drops of **IS Mithril** on an application cloth.
- 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 Microfiber Cloth** within 1 minute.
- Always ensure the areas coated are overlapping.

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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 **IS Mithril**. If the 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 1 hour 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 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 **IS Mithril** should be cleaned with cleaners in the pH range of 3-9. Strong acids or alkalis should be avoided and are also unnecessary as neutral cleaners are generally sufficient to clean substrate coated with **IS Mithril**.

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 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

IS Mithril 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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