# TECHNICAL DATA SHEET

IGL COATINGS<sup>™</sup> ECOCLEAR Aegis



| Material no. | 154328 | Revision date | 15.3.2023 |
|--------------|--------|---------------|-----------|
| Version      | 1.2    |               |           |

#### **IGL COATINGS ECOCLEAR AEGIS**

## AN ANTI-CORROSION COATING SYSTEM FOR METAL AND ALLOY SURFACES.

#### Description

ecoclear AEGIS is a 2-component graphene-reinforced anti-corrosion clear coating system for metal and alloy surfaces. ecoclear AEGIS is a solvent-based high solids (85-90%) coating system with outstanding weathering resistance. The optimum mixing ratio of AE1 and AE2 is 6:1 by weight. Stir slowly until homogeneous before application.

### **Technical data**

| Property                 | Value            |  |
|--------------------------|------------------|--|
| Pot-life (at 25°C)       | Approx. 4 hours  |  |
| Dry-to-touch (at 25°C)   | Approx. 6 hours  |  |
| Through drying (at 25°C) | Approx. 8 hours  |  |
| Maximum wet thickness    | 50 µm            |  |
| Coverage                 | 25 g per sq. ft. |  |
| Service temperature      | < 150 °C         |  |
| VOC content              | < 150 g/L        |  |

#### **Substrates**

Corrosion protection for alloy, concrete, metal, and wood surfaces.

#### **General guidelines**

- ecoclear AEGIS can be applied using a brush or a spray gun.
- Do not apply the product at temperatures <5°C. At low temperatures, the curing process will take longer.
- Provide adequate ventilation and fresh air during application.
- If possible, apply the paint in a dust-free environment.
- Caution: ecoclear AEGIS is flammable.

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

#### Step 1: Cleaning the surface

- In order to permit sufficient chemical bonding of **ecoclear AEGIS** to the substrate, the surface must be carefully cleaned of all contaminants before the application.
- 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: Painting process

- Mix AE2 into AE1 by following the ratio of **6:1 (AE1: AE2, by weight)**. Stir slowly to prevent bubble formation. Stir for at least 1 minute until homogenous. Adjust the viscosity of the mixture using the diluent if needed. For application using air spray, please refer to the spraying guide.
- Apply the coating onto the surface with proper painting techniques for the best finish.
- Allow the coating to dry to touch before applying the second layer (if needed).
  <u>Important Note:</u> Wet coating can be removed with some diluent. If it has been allowed to harden for more than 8 hours, it will need to be polished off with an abrasive system or a paint stripper.
- Air dry the coated surface after application for approximately 6 hours.

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• After use, clean all equipment with cleaning solvent or thinner.

#### Resistance

| Weathering | Good   |  |
|------------|--|--|
| Heat       | Good up to 150°C dry heat                              |  |
| Solvent    | Good to splash or spillage of common solvents          |  |
| Chemicals  | Good to splash or spillage of common chemicals         |  |
| Immersion  | Immersed up to 168 hours with no rusting or blistering |  |
| Hardness   | 63.5 (Shore D)   |  |

### 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.

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#### Disposal

Dispose product residue in incompletely emptied bottles by bringing it to the municipal collection point for hazardous waste.

#### Storage

**ecoclear AEGIS** is storage-stable for at least 12 months in originally sealed containers. Opened bottles should be stored properly and used within 6 months.

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**IGL COATINGS ECOCLEAR AEGIS** SPRAYING GUIDE

### Description

This spraying guide is based on IWATA W77-3G

### Spray gun specification

| Specification | Value        |
|---------------|--------------|
| Nozzle        | 2.5 mm       |
| Feed          | Gravity feed |
| Pattern width | 13 in        |
| CFM           | 11.5         |
| Fluid output  | 485 ml/min   |

### **General guidelines**

#### Step 2: Painting process

- Mix AE2 into AE1 by following the ratio of 6:1 (AE1: AE2). Stir slowly to prevent bubble formation. Add 5% to 15% \*(by weight) diluent to the mixture. The actual amount of diluent needed will vary depending on the spray gun. Rule of thumb: If the paint spatters, diluent need to be added.
- Pour the mixture into the feeder cup once ready.
- Adjust the pressure to 3 5 bar (43 72 psi). Adjust the spray gun pattern adjusting the knob (top) to fully open (3 turns, counting from minimum). The fluid adjusting knob (bottom) is adjusted to 3 turns.
- It is recommended to spray a test panel before the actual application.
- Apply the paint with an even sweeping motion and keep the nozzle approximately 20-30 cm away from the surface.
- Adding diluent reduces the wet thickness of the coating. Additional layers might be needed to achieve the target thickness.

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