

Technical Data Sheet

Graphene Thermal Management Coating I-HB41

I-HB41 is a solvent based graphene coating designed for thermal management and heat dissipation systems. The coating is suitable for brush painting or roller painting/coating. The coating layer shows excellent heat dissipation ability.

Physical Property

- Appearance : Black
- Resin : Epoxy
- Solid content: 56±2 %
- Viscosity: 3,000±500 cps (AB mixture)
- Shelf Life : Sealed for 6 months @ 25 °C
- Usage for coating : ~ 10 m²/kg*

⁺ Viscosity: Brookfield HADV-I+ with Spindle #2 @ 30rpm

*Estimation based on plane structure and no guaranteed for irregular shape structure.

Recommended Operation Condition

- Settling of solid may occur and compositions should be thoroughly mixed prior to use.
- Mix carefully in case of bubbling during operation.
- I-HB41_A: Main Coating; I-HB41_B: Hardener
- Optimum A: B = 5:1 with pot life of 8 hours.
- Recommended coating method : brush painting
- Surface of substrate should be clean without any surface treatment.

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Please note that partial of the analysis data are also conveniently available online at www.graphene.com.tw

- Recommended thickness : 30~50 μm of dried film
- Curing condition : 60 minutes @ 100 °C
- Thinner of I-HB41 is designated and contact Enerage Inc. for more information if the viscosity of the coating requires adjusting.
- Clean up : Acetone and MEK
- Please wear protective cloths as well as installing full ventilation during the operation.

Storage

- Graphene paint should be stored in a clean, stable environment at room temperature with their lids tightly sealed.
- Storage in high temperature (>30 °C) or freezers (<0 °C) is NOT recommended.

Safety Issue

- Products are intended for use in an industrial environment by trained personnel. Please follow proper health/safety processes regarding storage, handling and processing of the products. For Safety and Handling information pertaining to this product, refer to Safety Data Sheet (SDS).

Package

- The standard package is 3KG. The main coating (I-HS41-A) and hardener (I-HS41-B) are packaged separately. It could be customized according to customers' requirement.

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