aerospace & advanced composites

AAC SLIPS

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

AAC SLIPS is a hydrophobic, passive anti-ice coating based on slippery liquid-infused porous surface (SLIPS) technology. This pigmented, 2K hybrid resin system offers a slippery icephobic surface, making it a beneficial for environments prone to ice accumulation. With an ice adhesion strength of approximately 25 kPa, AAC SLIPS significantly lowers the bond between ice and solid surfaces, facilitating easy removal and reducing maintenance efforts. Formulated without PFA-based substances and curing effectively at room temperature, it simplifies application and enhances environmental safety.

KEY FEATURES

- Anti-ice
- PFA-free
- Hydrophobic
- Non isocyanate curing (NISO)
- Room temperature curing
- Ultra High solids
- Good adhesion to various substates

TECHNICAL PRODUCT DATA

appearence	opaque
colour	black
solid content	> 90%
chemical description	organic inorganic hybrid

APPLICATION RECOMMENDATIONS

i. SURFACE PREPARATION

The coating can be applied on a variety of surfaces, including stainless steel, galvanized steel, aluminum, glass, plastics (polycarbonate). Surface must be clean and dry, free from dirt, dust, rust, oil and grease. Remove old paints/coatings from the surface before the application of the AAC SLIPS.

Sandblasting or grinding of metal substrates is recommended.

ii. MIXING AND COATING PROCESS

The components are delivered in two packaging units in the correct mixing ratio. Component A is added in component B and mixed by gently shaking the container to ensure proper mixing.

The coating can be applied by spraying and overcoating after curing process is not possible due to non-sticky effect.

CONTACT

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spray gun	compressed air
nozzle diameter	1.4 mm
pressure	2.0 bar
humidity	55 RH%
thickness after curing	Up to 100 µm

iii. CURING CONDITIONS

Curing temperature	**Duration**
tack-free at RT	8 h
dry through at RT	> 10 h
full chemical / mechanical properties (RT)	14 d

CLEANING AND DISPOSAL PROCESS

- Equipment should be cleaned promptly after use, before curing process starts.
- Uncured material can be removed with appropriate organic solvents, such as n-butyl acetate, xylene, acetone. Do not use water or alcohols.
- The remaining portions of the product should not be mixed with other liquid or solid waste. Instead, they should be collected separately in suitable, dry, and pressure-resistant containers.
- Containers with material leftovers should be disposed according to regulations (see SDS). Upon Transportation, the containers must be securely sealed.

SAFETY AND STORAGE INFORMATION

- Overpressure can build up in the containers (possible gas release). Open carefully.
- Unopened containers should be stored at cool (max. +25°C), dark, dry and adequately ventilated places.
- Opened containers and unmixed products should be kept tightly sealed and stored in cool areas, at max. +15°C under dry and adequately ventilated conditions.
- Use with very good ventilation only
- Shelf life of unopened containers: max. 3 months from production (see conditions above).
- Shelf life of opened containers: max. 1 week from opening (see conditions above).
- Self life of mixed products: max. 8 hours (see conditions above).

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