



aerospace & advanced composites

## TECHNICAL DATA SHEET

### CONTACT

E-MAIL: [office@aac-research.at](mailto:office@aac-research.at)

WEB: [www.aac-research.at](http://www.aac-research.at)

# AAC 2000 AI

## PRODUCT DESCRIPTION

AAC 2000 AI is an advanced 1K solvent-based, specially formulated for applications requiring anti-ice properties. With a formulation completely free of fluorocarbons, this high-temperature curing solution excels in protecting substrates exposed to severe conditions, including cold, hot, moisture, and corrosive elements. Designed with advanced anti-ice properties, AAC 2000 AI prevents ice build-up on various surfaces and creates a resilient barrier that reduces ice adhesion, making it easier to remove ice and snow and minimizing operational disruptions. Its exceptional release and easy-to-clean characteristics enhance maintenance efficiency by facilitating the removal of ice, water as well as dirt layers.

## KEY FEATURES

- Anti-ice
- PFA-free
- Hydrophobic
- Easy-to-clean
- UV resistance, no discoloration
- Chemical and thermal resistance
- Dense and compact coating
- Good adhesion to various substrates

## TECHNICAL PRODUCT DATA

<b>appearance</b>	transparent
<b>colour</b>	colorless
<b>solid content</b>	approx. 40 %
<b>chemical description</b>	modified ceramic
<b>solvents</b>	xylene, n-butylacetate

## 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 2000 AI.

Sandblasting or grinding of metal substrates is recommended (max. Rz value 25-30% of desired thickness).



## ii. COATING PROCESS

Before using, gently shake the container to ensure proper mixing. Avoid excessive shaking and open the bottle carefully, due to possible gas release.

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

spray gun	compressed air
nozzle diameter	1.0 – 1.4 mm
pressure	1.8 bar
humidity	55 RH%
thickness after curing	up to 15 $\mu\text{m}$

## iii. CURING CONDITIONS

Curing temperature	Duration
160 °C	1 h
130 °C	3 h

## 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/ opened containers should be stored at cool (max. +25°C), dark, dry and adequately ventilated places.
- Use with very good ventilation only
- Refer to the Material Safety Data Sheet (SDS) before using this product.
- Shelf life: 6 months from production (see conditions above)



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**Aerospace & Advanced  
Composites GmbH**

2700 Wiener Neustadt,  
Viktor-Kaplan-Straße 2, Austria  
Tel: +43 2622 90550-0  
Fax: +43 2622 90550-99  
E-Mail: [office@aac-research.at](mailto:office@aac-research.at)  
[www.aac-research.at](http://www.aac-research.at)

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