



aerospace & advanced composites

TECHNICAL DATA SHEET

AAC 3000 EC

PRODUCT DESCRIPTION

The AAC 3000 EC is high performance 2K solvent-based hybrid transparent coating system, completely free of fluorocarbons. AAC 3000 EC is the ideal solution for protecting components of all sizes and geometries exposed to harsh environments, as it is applied and cured at room temperature. Its durability in combination to the release and easy-to-clean properties, as well as the outstanding stability against chemicals, mechanical stresses and light, making it the optimal key for industrial application that require special solutions.

KEY FEATURES

- PFA-free
- Easy-to-clean
- Release and non-stick effect
- Ultra high solids
- Room temperature curing
- Abrasion Resistance
- Scratch resistance
- UV and chemical resistant
- Good adhesion to various substrates

TECHNICAL PRODUCT DATA

appearance	transparent
colour	colorless
solid content	> 90 %
solvents	t-butylacetate, n-butylacetate
chemical description	organic inorganic hybrid
density (23 °C)	1.03 g/mL (ISO 2811-1)
viscosity (23°C)	35 – 51 cP

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 3000 EC. Sandblasting or grinding of metal substrates is recommended.

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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. Avoid excessive shaking and open the bottle carefully, due to possible gas release.

In case that a different amount of material is preferred, the two components can be mixed with ratio (by weight):

Component A	Component B
4	1

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

spray gun	compressed air
nozzle diameter	1.0 -1.4 mm
pressure	1.5 - 2 bar
humidity	55 RH%
thickness after curing	up to 30 μ m

iii. CURING CONDITIONS

Curing Temperature	Duration
Dry-to-touch at rt	10 h
Full chemical / mechanical properties (rt)	14 d

Optional, the curing process can be accelerated by adding an AAC-AC.*

Curing Temperature	Duration
Dry-to-touch at rt	1 h
Dry through at rt	4 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.

*Mixing ratio (by weight) : Component A: 4/ Component B: 1.2/ AAC-AC: 0.8



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SAFETY AND STORAGE INFORMATION

- Overpressure can build up in the containers (possible gas release). Open carefully.
- Unopened containers should be stored in cool areas, at max. +25°C under dry and adequately ventilated conditions.
- 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.
- Shelf life of unopened containers: max. 3 months after production (see conditions above).
- Shelf life of opened containers: max. 1 months (see conditions above)
- Self life of mixed products: max. 8 hours, without AAC-AC (see conditions above).
- Self life of mixed products: max 1 hour, with AAC-AC.

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