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Technical Data Sheet

ATA - 122: **Two component polyurethane based Adhesive**

Description

ATA - 122, is a solvent free, two component polyurethane based bonding system that cures through chemical reaction between components.

Chemical Characteristics

Component A: Polyol mixture with fillers
Component B: Isocyanate

Advantages

- Easy application
- Outstanding bonding properties
- High mechanical resistance
- High temperature resistance
- Solvent-free

Application

Stage 1: Surface Preparation

➢ The surface should be clean, dry, dust free with no foreign particles that can reduce the adhesion.

➢ A proper Primer should be used, if needed.

Surface requirements

Adhesion	>1,5 N/mm^2
Substrate moisture	<4%
Substrate temperature	>15°C

Stage 2: Consumption and application

Minimum consumption*	0,5 – 1 kg/m²
Ambient temperature	Affects pot-life & full curing
Application method	Brush or spatula

* depends on the application method

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Component Data

	Unit	Component A	Component B	Method
Density (20 °C)	g/cm³	1,60 ± 0,05	1,23 ± 0,02	DIN51757
Viscosity (20 °C)	mPa.s	40.000 ± 2.000	275± 25	DIN53018
Storage stability (20 – 25 °C)	months	3	6	

Processing Data

	Value	Unit	Method
Mixing ratio	Parts by weight	8 : 1 (Component A : Component B)	Test KDIV01
Application temperature	°C	20	

Packaging

The components, are supplied as separate components packaged in cans:

Component A: 25 kgs content

Component B: 3 kgs content.

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Storage, Preparation

Polyurethane components are moisture sensitive. Therefore they must be stored at all times in sealed, closed containers. The A-component (Polyol) must be homogenised by basic stirring before processing. More detailed information should be obtained from the separate data sheet entitled "Information for in-coming material control, storage, material preparation and waste disposal" and from the component data.

Durability/ shelf life : Better maintenance is achieved when the material is stored in a dry place at a temperature of 15-20°C in original, sealed containers. At a temperature below 10°C then crystals may be formed (B-component).Shelf life for Component A is 3 months and for Component B is 6 months.

Possible Hazards

The MDI, B-component (Isocyanate), irritates the eyes, respirator organs and the skin. Sensitisation is possible through inhalation and skin contact. MDI is harmful by inhalation. On processing these, take note of the necessary precautionary measures described in the Material Safety Data Sheets (MSDSs). This applies also for the possible dangers in using the A-component (Polyol) as well as any other components. See also our separate information sheet "Safety- and Precautionary Measures for the Processing of Polyurethane Systems." Use our Training Programme "Safe Handling of Isocyanate".

Waste Disposal

Fully reacted material is physiologically non-hazardous and can be disposed according to national regulations.

- Any other residual material must be treated in accordance with legal regulations.

Consumer articles, medical products

There are national and international laws and regulations to consider if it is intended to produce consumer articles (eg articles that necessitate food or skin contact, toys etc.) or medical objects out of NIMACO's products. Where these do not exist, the current legal requirements of the European Union for consumer articles as well as medical products should be sufficient. Consultation with the NIMACO’s Sales Office.

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Important Notes

- The applicator should have sufficient knowledge and experience in order to process the system in a safe and responsible manner
- In case of any form of insecurity the applicator must contact NIMACO
- The above system is for professional use only.

Safety Regulations

- Read thoroughly the safety data sheets before starting any application of product
- Avoid skin contact
- During application wear sufficient protective clothing such as safety glasses, shoes, gloves and, if necessary, ear protection
- If there is insufficient ventilation, use a separate independent air supply
- Ensure that the working area is clean and that there is a safe escape route.

Information

The following publications are available on request:

- Safety Data Sheets