AODISI

FIRE TECHNOLOGY

产品资料与销售咨询

PRODUCT DOCUMENTATION & SALES CONTACT

ROKU ® Adhesive T-NV, -MV, -HV - Technical Data Sheet-en

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以上为销售联系信息，不替代安全数据表中的应急联系电话。
原始技术内容及制造商、检测机构和证书签发信息见后续资料页。

Sales contact only; emergency contacts in safety data sheets remain applicable.
Original technical, manufacturer and certification details follow.

Technical Product Data Sheet

ROKU® Adhesive T-NV, T-MV and T-HV



kuhnodice

Tech.Rev.: 1.1
Ling. Rev.: 1.0

Product description

ROKU® Adhesives T-NV, T-MV and T-HV are flexible and durable adhesives that have been specially developed for use in fire protection applications. They are based on a solvent-free, halogen-free and non-combustible formula that ensures excellent adhesion on a wide variety of materials. They are ideal for gluing fire protection panels, seals and other fire-resistant building elements.

The adhesives have a high temperature resistance and remain stable even under extreme conditions. Once cured, they achieve extremely high levels of thermal resistance up to +800 °C. Another feature is their excellent mechanical strength and elasticity, which compensates for movements in the building structure and prevents cracks from forming.

ROKU® Adhesive T-NV is the variant with a low viscosity that makes it particularly easy to work with.

ROKU® Adhesive T-MV offers a balanced, medium viscosity.

ROKU® Adhesive T-HV has a highly viscous consistency and is designed for specific applications.

All the variants have been tested and approved in accordance with the relevant DIN standards.

Reaction to fire

- Class A1 (DIN 4102-1)

Properties

- Solvent-free, halogen-free, non-combustible
- Strong adhesion on a range of materials
- High temperature resistance
- Has a wide range of uses
- Easy to apply

Fields of application

- Metals such as steel, aluminium and stainless steel panels
- Gluing of mineral fibre, gypsum or fibre silicate boards
- Mineral or rock wool
- As a surface glue in door and element construction
- Gypsum processing

Technical data

Verification	abP P-3104/2193-MPA BS: 28 March 2024
Composition	Aqueous sodium silicate-based adhesive.
Material structure	T-NV: low-viscosity adhesive (thin fluid) T-MV: medium-viscosity adhesive (semi-fluid) T-HV: high-viscosity adhesive (thick fluid)
Volatile components (VOC) [g/l]	None
Temperature application range [°C]	+800
Bulk density [kg/m³]	1550 – 1630
pH value	11.5
Start of reaction [°C]	160
Viscosity [mPa·s]	T-NV: approx. 2750 T-MV: approx. 3000 T-HV: approx. 25,000
Storage	Store in a cool and dry place between +8 °C and +25 °C.
Shelf life	Original unopened containers can be stored for twelve months from their date of filling.







Colour variants

T-NV: RAL 7039 quartz grey

T-MV: RAL 8004 copper brown

T-HV: RAL 8004 copper brown

Processing information

1. Product acclimatisation:
   - Before working with the adhesive, it should be sufficiently acclimatised in the work area to minimise temperature fluctuations and ensure the optimal application properties.
2. Preparing the adhesive:
   - Prior to application, stir the adhesive thoroughly to ensure a homogeneous mix and the optimal application properties.
3. Surface preparation:
   - The surfaces to be glued must be clean, dry and free from dust, grease and oil.
   - Ensure that at least one of the surfaces to be joined is absorbent. For metallic surfaces, applying the adhesive to one side is usually sufficient.
4. Application temperature:
   - The product should be applied at ambient temperatures between +8 °C and +25 °C to help the adhesive adhere and cure.
5. Applying the adhesive:
   - Using a toothed spatula, evenly apply the adhesive onto one of the surfaces to be joined.
     For the low-viscous T-NV variant, you can also use an adhesive application roller or a bead application device.
   - Bind the workpieces within the open time to ensure the adhesive achieves the desired bond.
6. Fixing and pressing:
   - After joining the parts, fix or press them together until the functional strength is achieved. The adhesive can either be hot-pressed or cold-pressed, depending on the requirements of the application.
7. Cleaning:
   - Immediately remove any excess or escaped adhesive while fresh to ensure a clean application.
8. Safety notes:
   - Wear protective gloves and ensure good ventilation, particularly when using spray applications. Refer to the safety data sheet for additional protective and precautionary measures.

Content of a package/set

ROKU® Adhesive T-NV:	15 kg container
ROKU® Adhesive T-MV:	On request
ROKU® Adhesive T-HV:	15 kg container

Note

Freshly applied adhesives may have corrosive effects on bare metallic surfaces that are exposed for a longer period of time. Once fully cured, however, no occurrence of corrosion that could be directly traced back to the cured adhesive has been documented up to now.

The time parameters specified here can only be precisely determined through dedicated testing, because they are heavily influenced by the material, temperature, application quantity, air humidity, material humidity, thickness of the adhesive film, compressive power, and other criteria. As a rule, appropriate safety factors should be included for the guideline values.

When storing ROKU® Adhesive T-HV in cartridges or bottles, a clear phase appears on its surface. Do not use this layer during application.