



NEXT GENERATION TORTOISE SOLUTIONS

TORTOISE® TORPUR K 041 S

Polyurethane Based, Two Component, Liquid, General Purpose Adhesive

PRODUCT DESCRIPTION

Torpur K 041 S, is a two component, polyurethane based, solvent free, thixotropic liquid adhesive. It has flexible adhesion. It shows high performance in initial and final adhesion. It provides excellent adherence to different surfaces. It is a cold applied and cold cure polyurethane adhesive. It has high tensile, tear and abrasion resistance.

APPLICATION AREAS

Torpur K 041 S is used on the following surfaces:

- All kinds of parquet, wood coatings, rubber coatings
- Heat insulation plates
- Bonding of materials such as metal, ceramic, granite
- In thermal insulation boards
- EPS, XPS, PVC Fiberglass panel manufacturing
- Can be used in the manufacture of reefer bodies.
- Used as an adhesive on concrete, stone, wood, marble, tile and metal surfaces.

PROPERTIES

- Suitable for cold application and can be easily applied with a roller, trowel and notched trowel.
- Suitable for pedestrian traffic with its hard elastic structure.
- Resistance to ponding water and frost
- Maintains physical properties at -30°C / + 90°C
- Water vapor permeable and allows the surfaces to breathe.
- It has excellent adherence properties.
- High UV resistance and color stability
- Solvent free.

- Self levelling,
- Has the ability to spread itself.
- Does not contain toxic substances after it has been cured.

PRODUCT INFORMATION

PACKAGING

- A + B = 10 + 2 kg

COLOR

- Beige

SHELF LIFE

- The shelf life is 12 months if the specified storage conditions are followed in its original unopened packaging.

STORAGE CONDITIONS

- Store in a dry and cool environment (between +15°C / + 25°C)
- It should be protected from water, frost, heat, ignition, direct sunlight and adverse weather conditions
- The date of manufacture is on the label.
- Even opened packages are tightly closed, the inside of the product will be curing quickly so that the opened cans should be consumed in short time.

CONSUMPTION

- Consumption may vary depending on surface roughness, ambient and surface temperature and application method.



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APPLICATION INSTRUCTIONS

SURFACE PREPARATIONS

The surface should be purified from humidity. The application field should be cleaned out all other coatings and purified from oil, dust, dirt and slack materials. Torpur K 041 S application should be started.

Concrete substrate conditions (standard):

Temperature: +5/ +35 °C.

Relative humidity: <85 %.

PREPERATION of MATERIAL

The mixing time of the two components should be taken into account and prepared at the specified mixing rate until the amount to be consumed. In order to obtain a homogeneous mixture, the product temperature should not be less than 15 ° C.

The A component should be stirred quickly with a mechanical mixer, adding the hardener (component B) to the mixing ratio. Components A and B should be mixed with a mechanical mixer for at least 3 minutes until homogenous.

- The packages should kept at room temperature for 24 hours are opened and mixed until homogenous consistency. Mixing should be done with low speed mixer and appropriate mixer tip.

APPLICATION

Torpur K 041 S has two components and is mixed with 5 parts by weight of resin and 1 part of hardener until a homogeneous mixture is obtained.

Before applying the product, mix it with a suitable mixer at 300 rpm until it becomes homogeneous.

Torpur K 041 S is applied with a fine notched trowel, brush or roller.

- The packages, which are kept at room temperature for 24 hours, are opened and mixed until they reach a homogeneous consistency. The mixing process must be done with a low-speed mixer and a suitable mixer tip.
- The mixture is applied with materials suitable for the surface. In the application of the mixture, an average of 2 hours of press is needed, the press time will vary according to the temperature and humidity of the environment.
- The product should be protected against water and rain, external factors and mechanical stresses until it dries. weather may be shortened and may be extended in cold weather.

SAFETY

- Wear gloves, goggles and protective clothing.
- In case of contact with skin, wash with soap and water.

Users should refer to the latest Material Safety Data Sheets, including physical, ecological, toxicological, and other safety-related data for information or advice on the safe transport, storage, disposal of chemical products.

CLEANING TOOLS

- Cleaning of the tools should be done with soapy water before curing.
- After curing cleaning should be done with thinner.



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LIMITATIONS

- In closed areas due to long-term solvent odor and/or vendors the environment should be well ventilated.
- The surface temperature should be + 5 °C. The mixture of the material should be made with a special mixing device and tip which does not exceed 300- 400 RPM and it should not be mixed with high speed drill.
- In cold weather, packagings must be stored at a minimum temperature of +15 °C for at least 24 hours prior to application.
- Water vapor pressure should not be observed on the negative side. In such a case, special insulation must be applied before application.
- After the application, the surface must be protected against water, rain, dew, snow, hail etc. until it is dry.
- Full mechanical and chemical strength will occur in 7 days should be considered.
- Do not swallow, do not use empty packages for food storage and do not dispose of in a fire.
- For professional use only, keep out of reach of children.

DECLARATION

The information contained herein and in particular the application and end-use recommendations are provided in good faith, based on our current knowledge and experience, when properly stored, prepared and applied. The document, not being able to cover all possible scenarios or imply product suitability for every case of application.

Products, application surfaces and application areas are quite diverse in practice. Therefore, when using our products, be sure to apply the right product in the right conditions and in the right place, and strictly follow the information and instructions given by our company regarding commercial convenience and/or suitability for a particular purpose. Otherwise, our Alpa is not responsible for damages that may occur.

The user of the product (user) must test the suitability of the product for the application and purpose for which it intends to use the product. We reserve the right to change the specifications of our products. Property rights of third parties should be observed. Upon acceptance of all orders, our current terms of sale and shipping shall prevail.

Users should always consider the latest edition of the Product Data Sheet (TDS), which we can obtain from our company or our website, by contacting our company for the relevant product.



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TECHNICAL DATA

PROPERTIES(23 °C, 55 % RH)	UNIT	METHOD	SPECIFICATIONS
Mixing ratio A Component: K 041 S B Component: Hardener			5:1
Viscosity (BROOKFIELD) A Component: K 041 S B Component: Hardener	cP	ASTM D2196-86 / TS 5833 / EN ISO 3219	70000-90000 200-400
Density A Comp. B Comp.	gr/cm ³	ASTM D1475 / DIN 53217 / ISO 2811	1,75 ± 0,05 1.25 ± 0,05
Application time	Minutes	-	30-45
Curing Start	Minutes	-	45-60
Solid content	%	ASTM D2369	~100
Serve temperature	°C	-	+5°C/+30°C
Shore A hardness	Shore A	ASTM D2240 / DIN 53505 / ISO R868	80-90
Tensile strength	N/mm ²	ASTM D412	> 5
Elongation at break	%	ASTM D412	~ 100
Flash point	°C	ASTM D93	> 95
Shelf life	month	-	12