NEXT GENERATION TORTOISE SOLUTIONS

TORTOISE® TORPUR FLOOR 83

Polyurethane Based, Two Component, Solvent-Free, Self Levelling Floor Coating

PRODUCT DESCRIPTION

Torpur Floor 83 is a two component self-levelling coating material. Polyurethane based, solvent free, has high resistance to chemicals, corrosion; flexible, ability to create crack bridge and bright.

APPLICATION AREAS

Torpur Floor 83 can be used in factories, warehouses, garage, concrete surface which needs chemical and mechanical resistance and all hygienic places.

PROPERTIES

- Solvent free,
- It has excellent adherence,
- Resistant to heavy loads,
- High early and final bonding strength,
- Suitable for use with under floor heating,
- High strength to forklift and heavy traffic conditions,
- High flexibility and does not cracked and shrink,
- Shows effective resistance against chemicals (solvents, oils, sea water, thinned acids and sulfates).
- It does not contain toxic substances after it has been cured.

PRODUCT INFORMATIONS

PACKAGING

- A + B = 8 + 2 kg

COLOR

- Beige
- Grey
- Ral Colors

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 +15ºC / + 25ºC)
- 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

For 1.5 mm thickness: 2,4 kg/m^2

Note: (This consumption given for the applications without Silis Sand).

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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. The substrate should be smooth, dry, clean, free of cracks and pressure resistant. Uneven substrates should be levelled with a levelling compound at parquet or ceramic applications.

- Hardness of application surfaces (R28 = 15 Mpa)
- Temperature: 5-35 °C
- Relative humidity of air: < 85%

PRIMING

Many absorbent surfaces such as concrete, cement screed or wood should be filled with PU lining before the primer application, without creating a film.

It is of great importance for a correct application that the surface is smooth and saturated with primer. If the surface is not cleaned and primed properly, it can lead to the removal of the applied product from the surface, and the formation of problems such as bubbles, craters, pinholes etc. on the surface.

PRIMER SELECTION

SURFACE PROPERTIES	Torpur Epoxy Primer Barrier	Torpur Epoxy Primer	Torpur Primer EP Filler	Primer AS 014	Torpur SA 015
Humidity ≤ %4	✓	✓		✓	
Humidity %4 - %8	✓				
Non-uniform Concrete Surfaces			✓		
Metal, Aluminum, Marble, Ceramic, Galvanized Coated Surfaces					✓
Wood	✓				✓
PVC				✓	✓
Highly Absorbent Surfaces	✓	✓		✓	
Bitumen Coated Surfaces				✓	

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 Floor 83 applied by pointed trowel and notched trowel.

The mixture, which is ready for application, is applied so that the surface is saturated and the pores are closed. The new coat application time is minimum 4 hours (23 ° C) and maximum 24 hours. The surface must be sanded before new coat applications exceeding 24 hours.

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The layer must be protected against water and rain, external influences and mechanical stress until it is dry.
In case of application of the second layer, wait between the layers (approximately 8-12 hours). It should be kept in mind that the waiting time in hot weather may be shortened and may be extended in cold weather. important to apply the second coat within the new coat application period mentioned above. It reaches a full mechanical and chemical resistance (at 23 ºC, 55% RH) in 7 days.

- Can be applied on the floor by brush or roller.
- Apply the mixture to a prepared substrate with a suitable notched trowel. To achieve better contact between the material and the substrate, a weight application is recommended.

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.

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 ºC. 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 ºC 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.
- Do not approach with open flame and do not smoke during application.
- 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.
- Ensure to dry the wet coating very thoroughly, to prevent encapsulated air bubbles and/or pinholes on the final surface of the coating.

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DECLERATION

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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TECHNICHAL DATA

PROPERTIES (23 ºC, 55 % RH)	**UNIT**	**METHOD**	**SPECIFICATIONS**
View A Component: Floor 83 B Component: Hardener	-	-	Beige, Grey, Ral Colours
Mixing ratio A Component: Floor 83 B Component: Hardener	-	-	A:B 4:1
Viscosity (BROOKFIELD) A Component: Floor 83 B Component: Hardener	cP	ASTM D2196-86	1000-3500 200-400
Density A Component: Floor 83 B Component: Hardener	gr/cm^3	ASTM D1475 / DIN 53217 / ISO 2811	1,55 ± 0,05 1,20 ± 0,05
Application time	Minutes	-	35-50
Serve temperature	ºC	-	+5°C/+30°C
Shore A hardness	Shore A	ASTM D2240 / DIN 53505 / ISO R868	75-85
Solid content	%	ASTM D2369	~100
Tensile strength	N/mm^2	ASTM D412	> 5
Elongation at break	%	ASTM D412	~ 100
Flash point	^{o}C	ASTM D93	> 95
Shelf life	month	-	12