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weberfloor 4772N PU Top coat

- Solvent free
- Shiny finish
- Light and weather resistant
- Water and chemical resistant
- For slip-resistant finishes
- Suitable in wet areas
- Inside and outside

About this product

Solvent-free, coloured, and weather-resistant 2-component polyurea top sealer for slip-resistant floor coverings scattered with sand or corundum – with flame-retardant finish – especially for maritime applications.

Thanks to the fast curing, the product is water resistant at an early stage and results in glossy, coloured surfaces with a tough-hard film.

On ships, off-shore plants and other maritime floor surfaces, special requirements are placed on the fire resistance of surface coatings. weberfloor 4772N PU top coat is tested and approved in the recommended and tested combination with regard to low flammability, smoke density as well as toxicity of the smoke gases, in accordance with the International Maritime Organization (IMO) Fire Test Procedures (FTP) CODE Part 2 and Part 5.

The top sealer is largely light and weather stable and can therefore also be used for light-coloured coverings.

weberfloor 4772N PU top coat has good mechanical and chemical resistance. The surface is largely resistant to abrasion and wear, hygienic and easy to clean and is therefore also suitable in wet areas with slip resistance requirements.

The coating has good resistance to water, dew salt, grease, diluted acids and alkalis, etc. A conditional resistance is given to solvents, concentrated acids and bases, as well as to oxidised chemicals.

Area of use

- Weather-resistant top sealer of slip-resistant coverings scattered with quartz sand, silicium carbide or corundum.
- For flooring coverings on ships and off-shore plants as well as other maritime installations requiring IMO approval.
- For slip-resistant coverings for wet areas, indoors and outdoors.

Substrate

The substrate to be coated must be even, dry, dust-free, sufficiently resistant to tension and compression, and free of weakly bonded components or surfaces. Materials reducing adhesion, such as grease, oil and paint residues, must first be removed with suitable measures. The substrate must have

Product specification

Material consumption	Approx. 0.5 - 0.7 kg/m ²
Mixing ratio A:B	Parts by weight A : B = 100 : 40. Parts by volume A : B = 100 : 54.
Application temperature	Minimum 10 °C / 50 °F (room and floor temperature)
Pot life (Operating time)	30 - 35 min. at 10 °C / 50 °F. 20 - 25 min. at 20 °C / 68 °F. 15 - 20 min. at 30 °C / 86 °F.
Curing time	12 - 16 hrs. at 10 °C / 50 °F. 8 - 12 hrs. at 20 °C / 68 °F. 4 - 8 hrs. at 30 °C / 86 °F.
Curing time for light traffic load	1 - 2 days until it is able to withstand mechanical and wet loads at 20 °C / 68 °F
Curing time for full traffic load	3 - 4 days until it is able to withstand chemical loads at 20 °C / 68 °F.
Surface hardness	Shore-hardness D: Approx. 75 - DIN 53505 (7 days)
Density	Components A + B: Approx. 1.4 kg/l DIN EN ISO 2811-2 (at 23 °C / 73 °F)
Viscosity	Components A + B: Approx. 1300-1500 mPas DIN EN ISO 3219 (23 °C / 73 °F)
Storage conditions	12 months (originally sealed). Store in a dry and preferably frost-free location. Ideal storage temperature: 10 - 20 °C / 50 - 68 °F. Bring to a suitable working temperature before application. Tightly re-seal opened packages and use up the content as soon as possible.
Package	Bucket-Combo 10 kg

sufficient load-bearing capacity and must be checked on site.

If necessary, mechanically prepare the steel deck according to the requirements, e.g. by sanding or shot blasting.

When applying the product as a top sealer for scattered coatings, the excess sand must be carefully removed from the base layer after curing by sweeping, brushing off and vacuuming. If less rough coverings are desired, a light sanding can be carried out.

The procedure must be performed carefully in order for the sanded surface not to become dirty, or be sanded unevenly. After all of the loose sand has been carefully vacuumed up, the covering sealer can be applied. It is very important that the areas do not become dirty or contaminated with substances that would impair adhesion. The surface should only be walked on by the coating installer, wearing clean, light-coloured shoes and clean clothing.

To know before applying

To remove fresh contamination and to clean tools, use thinner after use.

Mixing

Combo-packaging will be supplied in the correctly measured mixing ratio. The package of component A has sufficient volume to contain the entire packaging unit. Empty all of the hardener B into the resin package. Blend with a slow speed mixer (200 - 400 rpm) for 2 - 3 minutes until a homogeneous, streak-free compound forms.

To prevent mixing errors, it is recommended that the entire resin mixture is emptied ("repotted") into a clean container and mixed once again briefly.

Work instructions

Build-up of Coats

The build-up of coats shows typical possibilities for the application of the product. The system structures may consist of several IMO-approved products. It is possible to install several systems tested as "lowest deck covering" on top of each other. The top layer always corresponds to a tested floor covering.

Slip-resistant scattered coating:

- If necessary, mechanically prepare the steel substrate according to the requirements, e.g. by sanding or shot blasting.
- Optional scratch coat to create a level substrate with weberfloor 4762N Epoxy Primer to which 5% water and 15 - 20% quartz sand 0.3/0.8 mm are added, consumption approx. 1.3 - 1.5 kg/m².
- After curing, a coating based on weberfloor 4771N PU Flex coating can be applied directly. Important note: The base coat weberfloor 4762N Epoxy Primer can be coated directly with weberfloor 4771N PU Flex coating after a curing time of at least 16 to max. 48 hours (at 20 °C (68 °F)), without sanding. Higher humidity and poor air exchange may require longer setting times.
- Apply a base layer of weberfloor 4771N PU Flex coating, in a layer of approx. 0.9 mm with the notched trowel notched blades S6 or Pajarito TKB-S2, consumption approx. 14 kg/m².
- Full-surface scattering with fire-dried quartz sand, grain size 0.3/0.8 mm, consumption approx. 2.5 - 3.5 kg/m².
- After curing, sweep off excess, sand and vacuum if necessary.
- Apply top sealer weberfloor 4772N PU top coat with a notched rubber squeegee or Kaupp trowel and immediately go over using a nylon roller (8 mm). Consumption, depending on the grain size and slip resistance: 0.5 - 0.7 kg/m². Check consumption to achieve the required level of slip resistance.

Processing / Handling

Scattered coatings: Apply the mixed material in portions to the prepared, sanded surface and scrape off evenly with a smooth, light-coloured notched rubber squeegee or Kaupp trowel, without ponding. Roll or spread evenly at short intervals with a lint-free nylon roller (pile height 8 mm). The areas should be processed carefully with the roller to ensure the structure is uniform and pore-free. The application quantity depends on the required slip resistance and the displacement volume. For information on consumption quantities for slip resistance grades, please seek advice. The product can also

be applied crosswise with a roller, which will create a rougher surface covering.

Important note: Especially in high humidity, the surface may cure quickly. This requires particularly fast processing so that there are no traces. In particular, the rhythm of work should then be fast and orderly. Subsequent work steps such as re-rolling should only be carried out with a slight time delay of a few minutes. Empty the contents of the container only in portions onto the surface. Increasing the surface area of the freshly mixed material (by completely emptying the container onto the surface) significantly reduces the processing time.

The floor and air temperatures must not fall below 10 °C / 50 °F and the humidity must not exceed 75%. The material to be processed must be at room temperature during processing. The floor temperature may – within the recommended working conditions – be a maximum of 3 °C / 3 K / 5.4 °F colder than the ambient room temperature to preclude a dew point on the surface to be coated and on the fresh coating itself. If a dew-point situation arises, regular drying and cross-linking will not be possible, with hardening problems and foaming to occur. The specified curing times apply to 20 °C / 68 °F; temperatures below this require longer processing and curing times, while higher temperatures require shorter times. If the working conditions are not complied with, the technical properties of the end product may deviate.

The coating of dew-damp substrates as well as the use of damp sand or even sweat lead to foaming of the material and must be avoided.

Coating

After curing, but at the latest after 48 hours at 20 °C / 68 °F

Please observe

This product is regulated by the German Ordinance on Hazardous Substances (GefStoffV), the German Ordinance on Industrial Safety and Health (BetrSichV), and transport regulations for hazardous goods. Observe the DIN safety data sheet and all identification information on the container label!

GISCODE: PU 40

Disclaimer

As there are different conditions at every opportunity, Weber can not be held responsible for anything other than the information provided under the heading "Product Specification". Examples of information and circumstances, which are outside Saint-Gobain (whether specifically stated or not) include storage, construction, processing, interoperability with other products, workmanship and local conditions.