

Marine Resin Coating Systems

Weber.floor 4764N Water-based Primer

2-component epoxy resin emulsion base coat, rapid-setting



Mixing ratio	Parts by weight	A : B	=	1 : 3
	Parts by volume	A : B	=	100 : 320
Application	Temperature	15 °C / 59 °F	20 °C / 68 °F	30 °C / 86 °F
	Time	40 minutes	30 minutes	20 minutes
Application temperature		Minimum 15 °C / 59 °F (room- and floor-temperature)		
Curing time (Accessibility)	Temperature	15 °C / 59 °F	20 °C / 68 °F	30 °C / 86 °F
	Time	5 - 7 hrs.	3 - 4 hrs.	2 - 3 hrs.
Dilution		Ready-to-use		
Curing		1 - 2 days for mechanical load at 20 °C / 68 °F		
		7 days for chemical resistance at 20 °C / 68 °F		
Further coatings		After curing, but not longer than 48 hours at 20 °C / 68 °F		
Consumption		Approx. 0.15 kg/m ² for each layer		
Packaging		Bucket-Combi 10 kg		
Colour		Non-pigmented		
Shelf life		12 months (originally sealed) – Protect from frost!		

Usage and Properties

WEBER.FLOOR 4764N WATER-BASED PRIMER is a 2-component, ready-to-use, and rapid-setting, solvent-free epoxy resin emulsion. **WEBER.FLOOR 4764N WATER-BASED PRIMER** is used as base coat prior to the application of water vapour permeable coatings and sealers.

Use **WEBER.FLOOR 4764N WATER-BASED PRIMER** predominantly when vapour tight base coats are not suitable. Necessary within the system on water vapour permeable coatings, e.g. on damp, early age concrete, magnesia substrate, susceptible to moisture and similar substrate.

The product cures by dehydration of the contained water and subsequent chemical cross-linking into a consistent, robust film with good adhesion. Due to its penetrating adjustment the substrate will be very well dampened, resulting in an excellent adhesive foundation for subsequent coatings.

Absorbency will be reduced, dust will be bound. In addition, the subsequent coating will result in a smooth, sealed surface for spread coatings.

WEBER.FLOOR 4764N WATER-BASED PRIMER cures rapidly, within 2 - 7 hours, ready for subsequent coatings. The end of pot-life is not visible. Excellent adhesion on different substrates, like steel, aluminum, galvanized steel, concrete, cement screed, magnesia and similar screed, as well as on older synthetic resin coatings. **WEBER.FLOOR 4764N WATER-BASED PRIMER** results in a hard, physiologically harmless film.

The product has been tested in combination with **WEBER.FLOOR 4765N EPOXY PAINT** according to the AgBB-testing standards of the DIBt® and has been classified as low-emission.

The cured coating offers resistance to water, aqueous salt solutions, diluted acids and bases. Conditionally resistant to solvents.

Product Features

- ready-to-use
- convenient application
- rapid-drying and curing
- tested, low-emission quality
- solvent-free
- excellent adhesion
- water vapour permeable
- easy to use
- environmentally friendly

Testing

External test certificates are available:

- VOC-values tested according to the AgBB-scheme.
- Tested and approved according to **SOLAS MED IMO 2010 FTP Code**.

Note:

Please ask for the tested system structure!

Areas of Application

- For use on magnesia- and anhydrite-screeds.
- For coatings on “waterproof” substrates with increased moisture content.
- As base coat before sealing with **WEBER.FLOOR 4765N EPOXY PAINT**, as well as non-pigmented film-forming impregnation.

Build-up of Coats

- Shot-blast or grind the substrate and vacuum thoroughly.
- Apply a base coat using **WEBER.FLOOR 4764N WATER-BASED PRIMER**, consumption approx. 0.15 kg/m²

Substrate

The substrate to be coated has to be levelled, surface-dry, free of dust, has to have adequate tensile and compressive strength, and be free from weakly-bonded components or surfaces. Materials impairing adhesion, such as grease, oil, and paint residues must be removed using suitable methods. Please refer to the advice issued by the trade associations,

e.g. the current edition of BEB-worksheets KH-0/U and KH-0/S. The surface to be coated should be prepared mechanically, preferably by shot-blasting or grinding. The surface strength has to be at least 1.5 N/mm². The prepared area has to be primed accurately and sealed properly. If the substrate has not been sealed completely bubbles and pores may appear because of rising air. Older substrate has to be prepared mechanically and cleaned intensively. Conduct a trial if in doubt.

Mixing

The material has a ready-to-use consistency and may not be diluted.

Combi-trading units will be supplied in the correctly measured mixing ratio. Component B has sufficient volume for the entire trading unit. Decant component A completely into the hardener B. Blend with a slow speed mixer (200 - 400 r/pm) for at least 2 - 3 minutes, for a material that is homogeneous and free of streaks, resulting in a whitish emulsion. To avoid mixing errors, it is recommended to empty the resin/hardener-mixture into a clean container and mix briefly once again.

It is mandatory to stay within the stated processing time – (see chart “Processing time”).

Note: End of pot-life is not visible!

Application / Handling

As with all reactive resins process the mixed material immediately. Apply the material with a nylon roller when used as a base coat. Apply in an even thin closed coat on the substrate. Avoid ponding and uneven layers. If the substrate is very absorbent apply another layer.

Floor- and air-temperature must not fall below 15 °C / 59 °F and/or humidity must not exceed 75 %. The difference in floor- and room-temperature must be less than 3 °C / 37.4 °F so the curing will not be disturbed. If a dew-point situation occurs adhesion may malfunction, curing may be disturbed, and spotting may occur. Exposure to water and chemicals must be avoided within the first 7 days. Curing time applies to 20 °C / 68 °F. Lower temperature may increase, higher temperature may decrease the curing and processing time. If working conditions are not complied with, deviations in the described technical properties may occur in the end product.

Cleaning

To remove fresh contamination and to clean tools, use water immediately. Hardened material can only be removed mechanically.

Storage

Store in dry and at frost-free conditions. Ideal storage temperature is between 15 - 20 °C / 59 - 68 °F. Bring to a suitable working temperature before application. Tightly re-seal opened containers and use the content as soon as possible.

Special Remarks

The product is subject to the hazardous material-, operational safety-, and transport-regulations for hazardous goods. Refer to the DIN-Safety Data Sheet and the information labelled on the containers!

GISCODE: RE 1

Indication of VOC-Content:

(EG-Regulation 2004/42)

Maximum Permissible Value 140 g/l (2010,II,i/wb):

Ready-for-use product contains < 140 g/l VOC.

Technical Data*

Viscosity	Components A + B	80	mPas	DIN EN ISO 3219 (23 °C / 73.4 °F)
Solid content		> 35	%	Weber-Method
Flashpoint		Non-flammable		DIN 51755
Density	Components A + B	1.05 -	kg/l	DIN EN ISO 2811-2 (20 °C / 68 °F)
Adhesive tensile strength		> 1.5	N/mm ²	DIN EN 1542

(*Values achieved in sampling are average values. Variation in product specification is possible.)

VOC-Contents

The product complies with the high requirements to low VOC-contents, as required for sustainable construction. Therefore these values exceed by far the European Union directive 2004/42/EG (decopaint-directive).

	Reference to*	Max. Value	Actual Content	
Directive 2004/42/EG	Component A	≤ 140	0	g/l
Decopaint-directive	Component B	≤ 140	1.8	g/l
DGNB German Sustainable Building Council	Components A + B	< 3	1.3	%
climate:active Climate protection initiative of the Austrian Federal Ministry of Agriculture, Forestry, Environment and Water	Components A + B	< 3	1.3	%
LEED Leadership in Energy and Environmental Design	Components A + B	< 100	14	g/l
Minergie Eco® Quality standard of the "Minergie society", Switzerland	Components A + B	< 1 (< 2)	1.3	%

(* According to the decopaint-directive single components are used for the calculation. For the quality rating system for sustainable construction the mixture of both components in the correct mixing ratio is the determining factor.)



All stated information is based on our previous experience and composition. It is not possible to consider every single case. Please seek advice for your special cases. We guarantee the correct and proper quality of our products. We do not assume responsibility for the work not carried out by us since we have no influence on the processing or processing conditions. We recommend that on-site-trials will be conducted. Our "General Terms and Conditions" apply. With appearance of this new data sheet all prior information loses validity.