

## QuickFloor 100 - Base

### 1. Charateristic:

**QuickFloor 100 Base** is a high performance, environmentally friendly industrial grade flooring solution. QuickFloor 100 Base is solvent and VOC free and shows excellent resistance to most chemicals and cleaning agents used on industrial floors. QuickFloor 100 Base can be used with fillers to construct a self leveling floor topping or with fine sand aggregate to make a high performance concrete patch and crack repair material.

### 2. Features:

- **Volumetric ratio is 2 : 1 (comp. A to comp. b)**
- **Easier handling and processing on site**
- **Solvent free (SF)**
- **Excellent bonding both on dry to damp concrete**
- **Excellent flow and self leveling characteristics**
- Low odour
- Solvent and VOC free – environmentally friendly.
- Acts as an excellent barrier against moisture and water vapour.
- Displays excellent abrasion and chemical resistance.
- Resistant to dilute bases, acids, water-based salt solutions and lubricants
- Good penetration of concrete substrates.
- Low viscosity
- Excellent stability under large temperature variations.

### 3. Typical Uses

- As a moisture blocking base coat on concrete substrates.
- As the primary and secondary base coats for Industrial flooring applications.
- As the base coat to accept quartz particles and or paint flecks for decorative flooring systems.
- As a concrete crack and patch repair material.
- As a self leveling floor topping.

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**POLYUREA**

4. Processing properties:	Data		
Mixing Ratio (A:B)	<b>Comp. A to Comp. B = 100 : 50 per volume</b>		
Consumption on concrete [m <sup>2</sup> / L]	Approx. 3 – 6m <sup>2</sup> per litre depending on concrete porosity		
Recommended DFT [µm]	Approx. 300 – 600 (closed and equal concrete surface) Approx. 800 – 1.200 (unlaced and unequal concrete surface)		
Numbers of coats	1 – 2 depending on concrete porosity		
Gellification time at 20 °C [min.]	Approx 30, depending on ambient temp and humidity.		
Over coating cycle min. [h]	20 °C: 2 – 2,5	30 °C: 1 - 2	
Over coating cycle max. [h]*	Steel: 24 - 48	Concrete: 24 - 48	
Walkable [h]	20 °C: 2 – 2,5	30 °C: 1 - 2	
Hardness/curing at 20 °C [Shore D]	70 - 80		
Temperature range for application (ambience) [ °C]	+5 - +35		
Temperature range for application (substrate) [ °C]	+5 - +35		
Maximal relative air humidity for application [%]	80 - 85		
Preconditions of the substrate:			
>> Concrete	min. C20/25 / compressive strength > 25 N/mm <sup>2</sup> / tensile strength > 1,5 N/mm		
>> Floating screed	min. EN13813 CT-C25-F4		
>> Plaster	P III		
>> Residual moisture	< 8 -10%		

5. Physical Properties:	Data			
Chemical Base	-	Comp. A: EP-resin based on Bisphenol A Comp. B: Cycloaliphatic Amin		
VOC-content	DIN EN ISO 11890-1 / ASTM D-1259	0%		
Solids content	DIN EN 827 / ASTM D-2697	100%		
Colour	-	Miscellaneous on request		
Viscosity [mPa*s] @ 25 °C	DIN EN ISO 2884-2 / ASTM D-4878	Comp. A: 2.000 – 2.800	Comp. B: 300 – 400	Mix: 1.100
Density [g/cm <sup>3</sup> ] @ 20 °C	DIN EN ISO 2811-1 / ASTM D-1217	Comp. A: 1,13 – 1,17	Comp. B: 1,08 – 1,12	Mix: 1,13
Pull off strength [N/mm <sup>2</sup> ]	DIN EN ISO 4624 / ASTM D-4541	Steel: ≥ 6		Concrete: ≥ 1,5
Max. Process temp. [ °C]	ISO 11346 / ASTM D-2485	Wet: 60	Dry: 150	Peak temperature dry: 180
Storage conditions [ °C]	DIN EN 12701 / ASTM	20 – 30 (in closed original drums, stored at dry and well ventilated place)		
Shelf life	-	12 months		

\*) All datas measured at 23 °F @ 50%rH. Meanderings at different ambience- and processing parameters have to be taken into account.

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### 6. Application process:

Before using both components have to be stirred well and separately then component B has to be poured into component A completely and then the combined products must be mixed thoroughly with a power agitator.

**The mixing ratio of comp A to comp B amounts to 100 : 50 by volume. In order to reach the right mixing ratio a graduated beakers should be used.**

When used to resurface and / or re-level concrete floors 1 Litre of QuickFloor 100 Base is mixed with approximately 2-3 Kg of clean dry silica sand or silica flour to make a smooth trowelable slurry. Adjust aggregate ratio if necessary depending on application. Larger 2 – 3mm aggregates can be used where very high build applications are required (5mm +). The slurry should be spread across the floor using a notched trowel and then back rolled with a spiked roller to assist in de-airing.

When used as a patch repair material QuickFloor 100 Base can be mixed with clean dry silica sand at a ratio of approximately 6 parts sand to 1 part QuickFloor 100 Base.

For heavy industrial applications QuickFloor 100 Base can be “top dressed” with suitable slip resistant aggregates prior to curing to provide a heavy duty slip resistant, seamless floor. The QuickFloor 100 Base and aggregate should then be sealed using QuickFloor 100 Clear.

QuickFloor 100 Base can be applied by roller or alternatively by spraying in a conventional way with air pressure or airless application. When spraying mix small batch lots to avoid cross linking occurring in the spray pot. When applying two coats the first coat of QuickFloor 100 Base must be tack free before applying the second coat.

The drying times depend naturally on the climate and environmental influences, e.g. ambient temperature, relative humidity of air and ventilation etc. Therefore the times specified can only be used as guidelines. The exact times have to be determined by testing on site.

### 7. Form of delivery:

Product name	Unit	Ref.-No.
QuickFloor 100 Base Comp. A+B	20 l / 10 l	On Request
QuickFloor 100 Base Comp. A+B	10 l / 5 l	On Request

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein is the only one which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and VIP GmbH makes no claim that these tests or any other tests, accurately represent all environments.

For requirements, which exceed the scope of the above mentioned applications, contact our technical staff at any time under the following number +49-(0)89-8955809 30.

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