

QuickFloor 500 – Super fast, aliphatic Roll-Down Coating

1. Charateristic:

QuickFloor 500 is a high performance new technology elastomeric, aliphatic flooring system. QuickFloor 500 displays excellent flexibility, impact resistance, abrasion resistance and chemical resistance. QuickFloor 500 is environmentally free containing no VOC's and can be roller or squeegee applied. Exceptionally fast drying times between 30 minutes and 60 minutes make QuickFloor 500 an ideal flooring solution for industrial applications requiring a rapid reuse time. Available in a variety of standard colours to cater for most applications.

2. Features:

- **Excellent color and gloss retention**
- **Cures to a very clear finish**
- **Excellent abrasive resistance**
- **Excellent adhesion to concrete substrates, even without using a primer**
- **Excellent chemical resistance compared to standard solvent driven epoxies and urethanes.**
- Fast reactivity and cure times.
- Rapid return to service.
- Seamless, flexible flooring system.
- Resistant to most chemicals, solvents, acids and caustics.
- Good outdoor weathering - resistant to chlorine and saltwater.
- Shows no sensitivity to humidity during application.
- Stable under a wide temperature range.
- Custom colours, quartz and chip floors available upon request.

3. Typical Uses:

- As a seamless rapid application, 1 product commercial flooring system
- Aircraft hangers
- Warehouse flooring
- Restaurants and kitchens
- Retail shops and shopping malls
- Hospital flooring
- Car park decks

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POLYUREA

| 4. Processing properties: | Data | | |
|---|--|------------|--|
| Mixing ratio of Comp. A to Comp. B | 1:1 | | |
| Material consumption m ² /L | 0.25L @ 250 micron | | |
| Recommended thickness [micron] | 200 - 500 micron | | |
| Numbers of coats | Depends on application method and spray tips used. | | |
| Gel time at 20 °C [min.] | 30 – 60mins | | |
| Waiting time between the single layers | 1 hour | | |
| Tack free time* [h] | 1 – 1.5 | | |
| Pedestrian traffic after* [h] | Low 1.5 – 4 | Heavy: 5-8 | |
| Curing* (Normal loading) [h] | 8-12 | | |
| Temperature range for application (ambience) [°C] | +5 - +50 | | |
| Temperature range for application (substrate) [°C] | +5 - +50 | | |
| Material temperature (Quick Floor) [°C] | 20 | | |
| Maximal relative air humidity for application [%] | 98 | | |

| 5. Physical Properties: | Data | | | |
|--|-------------------------------------|---|-------------------------------------|---------------------------|
| Chemical Base | - | Comp. A: HDI-Prepolymer Comp. B: Mod. Polyaspartics | | |
| VOC-content [%] | DIN EN ISO 11890-1 / ASTM D-1259 | VOC-exempted solvents | | |
| Solids content [%] | DIN EN 827 / ASTM D-2697 | 100 | | |
| Colour | - | Clear, Custom colours by order. | | |
| Viscosity [mPa*s] @ 25 °C | DIN EN ISO 2884-2 ASTM D-4878 | Comp. A: app. 450 | Comp.B: app. 450 | Mix: app. 450 |
| Density [g/cm ³] @ 20 °C | DIN EN ISO 2811-1 / ASTM D-1217 | Comp. A: 1,10 – 1,14 | Comp. B: 1,33 – 1,37 1,31 – 1,35 | Mix: ca. 1,26 ca. 1,24 |
| Density [g/cm ³] | EN ISO 1183 / ASTM D-792 | 1,02 ± 0,02 | | |
| Tensile strength [MPa] | ISO 37-2005 / ASTM D-638 | ≥ 25 | | |
| Elongation at tear [%] | ISO 37-2005 / ASTM D-638 | ≥ 120 | | |
| Hardness [Shore D] | ISO 868-2003 / ASTM D-2240 | 50 | | |
| Taber Abrasion [mg] | ASTM D-4060 | < 5 (Wheel CS17 / 1.000g / 500 cycles) | | |
| Climate-Test [ΔE* _{ab}] | ISO 4892-2 Teil A | 3 Years: - no observable change | | |
| Pull off strength [N/mm ²] | DIN EN ISO 4624 / ASTM D-4541 | | | Concrete: ≥ 1,5 |
| Max. Process temp. [°C] | ISO 11346 / ASTM D-2485 | Wet: 60 | Dry: 120 | Peak temperature dry: 140 |
| Storage conditions [°C] | DIN EN 12701 / ASTM | 10 – 30 (in closed original drums, stored at dry and well ventilated place; beware of freezing) | | |
| Shelf life | - | 12 months | | |

*) All measurements at 23 °C @ 50%rF. Deviations at different ambient conditions have to be taken into account.

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6. Application procedures:

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.

QuickFloor 500 can be applied by roller, squeegee or alternatively by spraying in a conventional way with air pressure or airless application.

When applying two coats the first coat of QuickFloor 500 must be tack free before applying the second coat. If recoat window is exceeded, sand slightly to produce a profile, wipe with acetone and recoat.

The drying times depend 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.

Use a 10 – 13mm Nap Mohair roller when rolling QuickFloor 500. When using a standard pot spray gun start with 2.5 – 3.5mm spray tips and adjust according to equipment and application requirements.

Cleaning of the spray equipment (conventional or airless-machines):

All spray equipment should be thoroughly flushed and washed after use with Acetone.

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7. Form of delivery:

| Product name | Unit | Ref.-No. |
|--------------------|---------|------------|
| QuickFloor 500 A+B | 2x 20 L | On Request |
| QuickFloor 500 A+B | 2x 200L | 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 users 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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