

# BEGER FLOORATHANE COATING

## High Performance : 2 Packs Thin Film Polyurethane Flooring

<b>Description</b>	Beger Floorathane Coating is a two-pack polyurethane, high performance, seamless epoxy coating capable of being applied at varying thickness from 50 to 100 microns to suit the final use of the floor. Beger Floorathane Coating offers excellent chemical, abrasion and impact resistance.																				
<b>Properties for Use</b>	Beger Floorathane Coating is suitable for concrete flooring, steel structural, tank farm, piping, and chemical plant equipments.																				
<b>Feature and Benefits</b>	<ul style="list-style-type: none"> <li>* Gloss retention : Very good</li> <li>* Water resistance : Very good</li> <li>* Abrasion resistance : Very good</li> <li>* Solvent resistance : Good</li> <li>* Chemical resistance : Good</li> <li>* Flexibility : Good</li> </ul>																				
<b>Film Thickness and Spreading Rate</b>	<table border="1"> <thead> <tr> <th></th> <th>Minimum</th> <th>Maximum</th> <th>Typical</th> </tr> </thead> <tbody> <tr> <td>* Dry film thickness (microns)</td> <td>30</td> <td>50</td> <td>40</td> </tr> <tr> <td>* Wet film thickness (microns)</td> <td>55</td> <td>91</td> <td>73</td> </tr> <tr> <td>* Theoretical coverage rate (m<sup>2</sup>/Litre/coat)</td> <td>18.3</td> <td>11</td> <td>13.7</td> </tr> </tbody> </table>		Minimum	Maximum	Typical	* Dry film thickness (microns)	30	50	40	* Wet film thickness (microns)	55	91	73	* Theoretical coverage rate (m <sup>2</sup> /Litre/coat)	18.3	11	13.7				
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<b>Physical Properties</b>	<ul style="list-style-type: none"> <li>* Vehicle type : Epoxy</li> <li>* Finish : Glossy</li> <li>* Colour : According to Colour Card</li> <li>* Solid by volume : 53 - 57%</li> <li>* Dry time (@ Substrate temperature) <ul style="list-style-type: none"> <li>@10°C <table border="1"> <thead> <tr> <th></th> <th>@10°C</th> <th>@23°C</th> <th>@40°C</th> </tr> </thead> <tbody> <tr> <td>Surface dry (hours)</td> <td>1</td> <td>0.5</td> <td>0.5</td> </tr> <tr> <td>Through dry (hours)</td> <td>6</td> <td>3</td> <td>1.5</td> </tr> <tr> <td>Cured (days)</td> <td>10</td> <td>5</td> <td>2</td> </tr> <tr> <td>Dry to Recoat Minimum (hours)</td> <td>6</td> <td>3</td> <td>1.5</td> </tr> </tbody> </table> </li> </ul> </li> </ul> <p>: Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly. The figures given in the table are typical with:</p> <ul style="list-style-type: none"> <li>* Good ventilation (Outdoor exposure or free circulation of air).</li> <li>* Typical film thickness.</li> <li>* One coat on top of inert substrate.</li> </ul> <p>: Provided the surface is free from chalking and other contamination prior to application, there is normally no overcoating time limit. Best intercoat adhesion occurs, however, when the subsequent coat is applied before preceding coat has cured. If the coating has been exposed to direct sunlight for some time, special attention must be paid to surface cleaning and mattening/removal of the surface layer in order to obtain good adhesion. : The given data must be considered as guidelines only. The actual drying time/times before recoating may be shorter or longer, depending on film thickness, ventilation, humidity, underlying paint system, requirement for early handling and mechanical strength etc. A complete system can be described on a system sheet, where all parameters and special conditions could be included.</p>		@10°C	@23°C	@40°C	Surface dry (hours)	1	0.5	0.5	Through dry (hours)	6	3	1.5	Cured (days)	10	5	2	Dry to Recoat Minimum (hours)	6	3	1.5
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* Flash point	: 23 - 27°C																				
<b>Application Method</b>	<ul style="list-style-type: none"> <li>* Tool : Brush, roller, spiked roller or steel trowel. <ul style="list-style-type: none"> <li>* Brush : Stiff Nylon Brush.</li> <li>* Roller : Short Hair Stiff Nylon Roller.</li> <li>* Spiked Roller : It is very important to pierce the coating with a spiked roller, after achieving the desired thickness, to avoid air bubbles.</li> <li>* Steel Trowel : For thickness from 0.5 - 1.0 mm use a steel trowel or height adjustable steel spreader. The material should be spread out onto the floor using a flat edge trowel or similar tool and finished with a good quality short hair mohair roller. Once the desired film thickness is achieved, it is very important to roll the coatings with a spiker roller. This will help to a void air bubbles and remove trowel marks.</li> </ul> </li> <li>* Thinner : Beger Thinner #M-22.</li> <li>* Handling : 9 parts Comp. A (base) to be mixed thoroughly with 1 part Comp. B (curing agent). : Guiding data airless spray : Pressure at nozzle 15 MPa (150 kp/cm<sup>2</sup>, 2100 psi) : Nozzle tip : 0.46 - 0.58 mm (0.013 - 0.018 inches) : Spray angle 40 - 80° : Filter Check to ensure that filters are clean. : The temperature of the substrate should be minimum +10°C and at least 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. Good ventilation is required in confined areas to ensure proper drying. : Hydrojetting of steel surface makes a wet surface. The surrounding air must have a relative humidity not exceeding 85%. Before painting the surface shall not be glossy with moisture, but can have a patchy appearance. : The temperature of the mixture of base and curing agent is recommended to be at least 15°C. : Too much solvent results in lower sag resistance and slower cure. : If extra solvent is necessary, this should be added after mixing of the two components.</li> </ul>																				
* Condition during application	<ul style="list-style-type: none"> <li>* Condition during application : All surfaces damaged by exposure to chemicals, contaminated by any substance or unsound in any way, shall be removed to expose sound concrete. : New surfaces : Coated surfaces * All surfaces should be clean and free from contamination. The surface should be assessed and treated in accordance with ISO 8504. : Other surfaces * Clean, dry and undamaged compatible primer. For maintenance WJ3 (NACE No.5/SSPC-SP 12) or power tool cleaning to min. St 2 for rusted areas. : General Concrete * Concrete surface preparation by using dust free captive blasting units, grinding equipment, sand blasting or high pressure water jetting is critical to achieving the right surface profile prior to paint application. Please contact Beger office for more information. * Primer : Beger FloorGuard 1100 1 coat (50 - 100 µm) * Top coat : Beger Floorathane Coating 2 coats (50 µm) : Rough Concrete * Primer : Beger C-Guard Sealer 1 coat (50 µm) * Top coat : Beger Floorathane Coating 2 coats (50 µm) : Smooth Concrete * Primer : Beger C-Guard Penetrating Sealer 1 - 2 coats (100 µm) * Top coat : Beger Floorathane Coating 2 coats (50 µm) : Other systems may be specified, depending on area of use.</li> </ul>																				
<b>Application System</b>																					
* Surface preparation																					
* Typical paint system																					
<b>Storage</b>	<ul style="list-style-type: none"> <li>: The product must be stored in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated space and away from source of heat or ignition.</li> <li>: Containers must be kept tightly closed.</li> <li>: 12 months at ambient.</li> </ul>																				
<b>Health and safety</b>	<ul style="list-style-type: none"> <li>: Please observe the precautionary notices displayed on the container.</li> <li>: Use under well ventilated conditions.</li> <li>: Do not breathe or inhale mist.</li> <li>: Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water.</li> <li>: Eyes should be well flushed with water and medical attention sought immediately.</li> </ul>																				
<b>Precaution</b>	<ul style="list-style-type: none"> <li>: Keep out of reach of children.</li> <li>: Do not use or keep near heat, sparks, flame or other source of ignition and direct sun light.</li> <li>: Keep away from water during application.</li> </ul>																				
<b>Reference Standard</b>	: -																				
<b>Packing Size</b>	<ul style="list-style-type: none"> <li>: 3.785 Litres : 3.406 litres Comp. A (base) and 0.378 litres Comp. B (curing agent).</li> <li>: 18.92 Litres : 17.028 litres Comp. A (base) and 1.892 litres Comp. B (curing agent).</li> </ul>																				

### DISCLAIMER

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, We cannot guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice.