



# BEGER DURAGUARD HB

## High Performance : 2 Packs Epoxy (High Build)

<b>Description</b>	Beger DuraGuard HB is a two-pack epoxy coating based on epoxy resin with high molecular weight.																										
<b>Properties for Use</b>	Beger DuraGuard HB suitable for steel structural, tank from, piping, and chemical plant equipments.																										
<b>Feature and Benefits</b>	<ul style="list-style-type: none"> <li>* Water resistance : Very Good</li> <li>* Abrasion resistance : Very Good</li> <li>* Solvent resistance : Excellent</li> <li>* Chemical resistance : Excellent</li> <li>* Flexibility : Good</li> </ul>																										
<b>Film Thickness and Spreading Rate</b>	<b>Minimum</b>	<b>Maximum</b>	<b>Typical</b>																								
* Dry film thickness (microns)	80	150	100																								
*Wet film thickness (microns)	133	250	167																								
*Theoretical coverage rate (m2/Litre/coat)	7.5	4.0	6.0																								
<b>Physical Properties</b>	<ul style="list-style-type: none"> <li>* Vehicle type : Epoxy</li> <li>* Finish : Glossy</li> <li>* Colour : According to the "Beger Heavy Duty Coating"</li> <li>* Solid by volume : 58 - 62%</li> </ul> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"></th> <th style="text-align: center;">@10<sup>o</sup> C</th> <th style="text-align: center;">@23<sup>o</sup> C</th> <th style="text-align: center;">@40<sup>o</sup> C</th> </tr> </thead> <tbody> <tr> <td>* Dry time(@ Substrate temperature)</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Surface dry (hours)</td> <td style="text-align: center;">3</td> <td style="text-align: center;">2</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="padding-left: 20px;">Through dry (hours)</td> <td style="text-align: center;">14</td> <td style="text-align: center;">8</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="padding-left: 20px;">Cured (days)</td> <td style="text-align: center;">14</td> <td style="text-align: center;">7</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="padding-left: 20px;">Dry to Recoat (hours)</td> <td style="text-align: center;">10</td> <td style="text-align: center;">8</td> <td style="text-align: center;">3</td> </tr> </tbody> </table> <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.</p> <p>If the coating has been expose to direct sunlight for some time, special attention must be paid to surface cleaning and mattering/ removal of the surface layer in order to obtain good adhesion.</p> <p>: 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 handing 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 <sup>o</sup> C	@23 <sup>o</sup> C	@40 <sup>o</sup> C	* Dry time(@ Substrate temperature)				Surface dry (hours)	3	2	1	Through dry (hours)	14	8	3	Cured (days)	14	7	3	Dry to Recoat (hours)	10	8	3
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* Flash point	: 37 - 41 °C																										
<b>Application Method</b>	<ul style="list-style-type: none"> <li>* Tool : Brush, roller or spray gun. <ul style="list-style-type: none"> <li>* Spray : Use airless spray.</li> <li>* Brush : Recommended for stripe coating and small areas, care must be taken to achieve the specified dry film thickness.</li> <li>* Roller : May be used for small areas but not recommended for first primer coat, however when using roller application care must be taken to apply sufficient material in order achieve the specified dry film thickness.</li> </ul> </li> <li>* Thinner : Beger Thinner #M-68.</li> <li>* Handing : Application by airless spray, roller and brush dilute with 0 - 10% Beger Thinner #M-68 by volume.</li> <li>* Condition during application : 4 parts Comp. A (base) to be mixed thoroughly with 1 part Comp. B (Curing agent) to 10 minutes. <ul style="list-style-type: none"> <li>: Application for spray : Pressure at nozzle 15 Mpa (150 kp/cm<sup>2</sup>, 2100 psi) : Nozzle tip : 0.58 - 0.79 mm (0.023 - 0.031 "), Spray angle 40 - 80<sup>o</sup>, check to ensure that filters are clean.</li> <li>: The temperature of the substrate should be minimum + 10<sup>o</sup> C and at least 3<sup>o</sup> 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.</li> <li>: 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.</li> <li>: The temperature of the mixture of base and curing agent is recommended to be at least 15<sup>o</sup> C, otherwise extra solvent may be required to obtain correct viscosity.</li> <li>: Too much solvent results in lower sag resistance and slower cure.</li> <li>: If extra solvent is necessary, this should be added after mixing of the two components.</li> </ul> </li> </ul>																										



**DISCLAIMER**

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<b>Application System</b>													
* Surface preparation	<p>: It can be used on Iron, Stainless Steel, Aluminium, Zinc Galvanized where blast cleaning may be possible. Can be used as primers and topcoats.</p> <p>: All surfaces should be clean and free contamination. The surface should be assessed and treated in accordance with ISO 8504.</p> <p>: Bare steel</p> <p>* Cleanliness : Power tool cleaning to min. St 2, mill scale free (ISO 8501-1:2007). Improved surface treatment (blast cleaning to St 2 1/2) will improve the performance. In case of hydrojetting the flash rust degree shall not exceed moderate in SSPC and NACE standards for water prepared surfaces.</p> <p>: Shopprimerd steel</p> <p>* Clean, dry and undamaged approved blast-primer.</p> <p>: Coated surfaces</p> <p>* Clean, dry and undamaged compatible primer. For maintenance WJ3 (NACE No.5/SPC-SP 12) or Power tool cleaning to min. St 2 for rusted areas.</p> <p>: Other surfaces</p> <p>* The coating may be used on other substrates. Please contact Beger office for more information.</p>												
* Typical paint system	<p>: As Primer and Topcoat</p> <table border="0"> <tr> <td>* Primer</td> <td>: Beger M-Guard Red Oxide <i>and/or</i> Beger DuraGuard HB</td> <td>1 - 2</td> <td>coats</td> </tr> <tr> <td>* Top coat</td> <td>: Beger DuraGuard</td> <td>1</td> <td>coat</td> </tr> </table> <p>: For Portable Water Tanks</p> <table border="0"> <tr> <td>* Primer</td> <td>: Beger DuraGuard HB</td> <td>3</td> <td>coats</td> </tr> </table> <p>: Other systems may be specified, depending on area of use.</p>	* Primer	: Beger M-Guard Red Oxide <i>and/or</i> Beger DuraGuard HB	1 - 2	coats	* Top coat	: Beger DuraGuard	1	coat	* Primer	: Beger DuraGuard HB	3	coats
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<b>Storage</b>													
	<p>: 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 an ignition</p> <p>: Containers must be kept tightly closed.</p> <p>: 12 months at ambient.</p>												
<b>Health and safety</b>													
	<p>: Please observe the precautionary notices displayed on the container.</p> <p>: Use under well ventilated conditions.</p> <p>: Do not breathe or inhale mist.</p> <p>: Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water.</p> <p>: Eye should be well flushed with water and medical attention sought immediately.</p>												
<b>Precaution</b>													
	<p>: Keep out of reach of children.</p> <p>: Do not use or keep near heat, sparks, flame or other source of ignition and direct sun light.</p> <p>: Keep away from water during application.</p>												
<b>Reference Standard</b>													
	: -												
<b>Packing Size</b>													
	<p>: 3.785 Litres : 3.028 litres Comp. A (base) in a 4 litres container and 0.757 litres Comp. B (curing agent). In a 1 litre container.</p> <p>: 18.92 Litres : 15.136 litres Comp. A (base). In a 20 litres container and 3.784 litres Comp. B (curing agent). In a 4litres container.</p>												



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