

# GlobalDur GN101 Epoxy Primer



PERFORMANCE IN COATINGS

## TECHNICAL DATA SHEET

### Epoxy Primer Solvent-free Converter/Inhibitor and Moisture Tolerant Low Temperature

<b>PRODUCT DESCRIPTION</b>	<ul style="list-style-type: none"> <li>◆ GlobalDur GN101EP is an excellent epoxy/amine two pack anticorrosive solvent free primer for steel. Can also be applied over concrete.</li> <li>◆ GlobalDur GN101EP is an excellent primer specially design to cure at very low temperatures.</li> <li>◆ GlobalDur GN101EP is a primer specially design to be applied over well tightly adherent rust and moisture or dry surfaces.</li> <li>◆ GlobalDur GN101EP is a primer specially design for excellent performances on hydroblasted prepared surfaces.</li> <li>◆ GlobalDur GN101EP can be applied as a primer, intermediate or finish (however may have slight colour differences due to its particular properties).</li> </ul>
----------------------------	--

<b>PERFORMANCES</b>	<ul style="list-style-type: none"> <li>• Excellent anticorrosion performance allying conversion and inhibitor properties;</li> <li>• No humidity/dew point restrictions;</li> <li>• Curing temperature until <math>-10^{\circ}\text{C}</math> (<math>14^{\circ}\text{F}</math>);</li> <li>• Excellent resistance to wearing and impact;</li> <li>• No surface profile needed;</li> <li>• Absence of health harm solvents;</li> <li>• Excellent adhesion to substrate and between coats;</li> <li>• Surface preparation cost reduction;</li> <li>• Excellent edge retention;</li> <li>• Good chemical resistance.</li> </ul>
---------------------	---

<b>RECOMMENDED USE</b>	<p>PRIMER/INTERMEDIATE/FINISH OVER STEEL</p> <p>MARINE: ballast tanks, fuel/crude oil tanks, decks, bilge and void areas, double bottoms, rigs, offshore platforms, etc..</p> <p>PROTECTIVE: Bridges, machinery, railroad cars, metallic structures, lead and other coatings covered structures, interior/exterior of fuel and water pipe lines.</p>
------------------------	--

<b>APPROVALS</b>	Complies with ISO 12944-5, as being suitable for coating systems until C5-M and Im3.
------------------	--

<b>COMPONENT A</b>	<b>COMPONENT B</b>	<b>COLOURS</b>
GN101EP	H101EP	GN101EPG7000 (Light Grey), GN101EPG3009 (Red Iron Oxide). For other colours, please contact GlobalNavy's office.

### Physical Properties

<b>GLOSS</b>	Glossy.
<b>SOLIDS BY VOLUME</b>	100 % (theoretical).
<b>VOC*</b>	30g/L.
<b>FLASH POINT</b>	$> 121^{\circ}\text{C}$ ( $> 250^{\circ}\text{F}$ ) Setaflash
<b>PERFORMANCE</b>	

<b>ISSUED</b>	Edition 03 / Mod.10 - 21/05/2018
---------------	----------------------------------

# GlobalDur GN101 Epoxy Primer



PERFORMANCE IN COATINGS

## Application

<b>SURFACE PREPARATION</b>	<p>Painting Direct to Metal: GlobalDur GN101EP, is suitable for surfaces prepared by hydroblasting, grit blasting (dry or wet) and mechanical, accordingly with the following standards:          Grit Blasting: SA2 (ISO 8501-1:1988)          Wet Blasting:WAB-6 M (NACE 6G198, NACE Vis 9)          Hydroblasting: Wj2-M (SSPC SP12 – VIS4(I) / NACE N°5- N°7)          Mechanical Means: St3 (ISSO 8501-1:1988)</p> <p>Apart from the surface preparation method, the moisture tolerance of GlobalDur GN101EpoxyPrimer allow the surface to be washed with tap water before painting, ensuring a final lower salts level. By this way, it is possible to achieve a non visual standard SC2 (NACE 5 / SSPC-SP12). The rust tolerance of GlobalDur GN101EpoxyPrimer allow a painting with a flash rust until M degree (standard SSPC VIS4(I) / NACE N°7). The anti corrosive performance over na ST3 surface, followed by degreasing and surface wash is however not so good as the other surface preparation methods. Over coated surfaces, be sure of the old coating conditions (no coating defects and corrosion- in "sound conditions") and the compatibility with the GlobalDur GN101EP. Please contact GlobalNavy office in case of any doubt or for further information.</p>
<b>APPLICATION METHOD</b>	<p>SPRAY: Use air less spray. Use an equipment with a compressing 60:1 ratio, an inlet 4,5 bar pressure, allowing a 240-310 bar outlet pressure. A 0,019" or 0,0 23" tip is recommended. Conventional spray equipment only on special application conditions- contact GlobalNavy for more information. CONVENTIONAL METHODS: Brush and roller are suitable for "stripe-coat" and small areas, care should be taken in order to achieve the DFT specified. When applying on enclosed areas ensure a good ventilation. It is not necessary to use dehumidification equipment: GlobalDur GN101EP can be applied on dry or wet surfaces, even with 100% humidity and surface temperatures below the dew point.</p>
<b>APPLICATION CONDITIONS</b>	<p>The substrate temperature shall be -10°-+50°C. The ambient temperature shall be &gt;-10°C and moisture &gt;12%. There is no dew point restrictions. However the surface must be without ice.</p>
<b>APPLICATION DATA</b>	<p>GlobalDur GN101 EpoxyPrimer, is a two pack product, so the base and hardener must be mixed on the right ratio. First, mix well component A during 2 minutes. After that, add all the hardener and stir very well until it get homogeneous. Only if necessary, for na application optimization adjustment, the product can be diluted until 5 % (v/v) with GN001TH. Mix completely both quantities of component A and B packs.</p>
<b>MIX RATIO</b>	4,3 / 1 (by Weight) 3,3 / 1 (by Volume)
<b>HARDENER</b>	H101EP
<b>POT LIFE</b>	1 hour (23°C).
<b>THINNER</b>	GN001TH/GN003TH
<b>SOLVENT / CLEANER</b>	GN003TH
<b>DRY TIME</b>	<p>Surface dry: 3 hours at 23°C (73°F); 24 hours at -10°C (+14°F).          Dry to recoat: Min: 8 hours at 23° C (73°F); 24 hours at -10°C (+14°F).          Max: 7 days at 23°C (73°F); 10 days at -10°C (+14°F).</p>
<b>THEORETICAL COVERAGE</b>	6.6 Sq.m/Lt. (268,62 Sq.ft/US gal - Dry/Wet: 150 microns (6 mils)
<b>TYPICAL PAINT SYSTEM</b>	<ul style="list-style-type: none"> <li>• GlobalDur GN101EP 2 x 200µm (DFT). This is a system for immersion conditions. Please contact GlobalNavy for other applications.</li> </ul>

# GlobalDur GN101 Epoxy Primer



PERFORMANCE IN COATINGS

<b>STORAGE</b>	4 years (storage on the original tightly closed containers in a dry, cool, well ventilated space, at temperatures between 5°C - 40°C).
<b>PACKING</b>	Two pack product, available in packs (A+B) 1 L, 5 L and 20 L.
<b>FURTHER INFORMATION</b>	The conventional air spray is only possible with a much higher dilution ratio, so it only should be used on special applications. If exact colour matching is required, ensure that GN101EP in each area is applied from the same control batch numbers.
<b>HEALTH SAFETY</b>	Please take the necessary measures in order to accomplish the national laws and regulations regarding the environmental, health and safety at work. Please observe the safety information displayed on the container. Please refer to the Safety Data Sheet for detailed information on the health, safety hazards and precautions for the use of this product.

The information on this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. This is not a specification and all information is given in good faith. Every values presented as Theoretical were calculated from the product formula, so can have deviation from laboratory measurements using standard methods that may be not applicable. However, since the product can be used under conditions beyond our control, the manner of use is the sole responsibility of the user. The product is intended for professional use only. Manufacturer does not assume any liability in connection with the use of the product relative to coverage, performance or injury. This Technical Data Sheet content can be changed without notice.

Parque Industrial de Carrascas, Estrada Nacional 252, 2950-402 Palmela PORTUGAL  
◆ Tel.:+351 265107979 ◆ www.globalnavy.net ◆ email: sales@globalnavy.net