

GlobalDur GN114 Epoxy Primer



TECHNICAL DATA SHEET



Epoxy Primer Solvent Free for Wet Concrete

PRODUCT DESCRIPTION	<ul style="list-style-type: none"> ◆ GlobalDur GN114EP is an excellent epoxy primer solvent free for wet concrete. ◆ GlobalDur GN114EP is specially design to have excellent chemical resistance, mechanical and aesthetic properties. ◆ GlobalDur GN114EP is a primer specially design for excellent performances on hydroblasted prepared surfaces. 		
PERFORMANCES	<ul style="list-style-type: none"> • Excellent adhesion on wet and green concrete; • No harmful solvents- Solvent free; • Excellent wet ability to concrete and no dew point restrictions; • High mechanical properties. 		
RECOMMENDED USE	<p>PRIMER/INTERMEDIATE/FINISH OVER CONCRETE</p> <p>MARINE: Decks, Chain lockers, Tower bridge, etc.</p> <p>PROTECTIVE: Suitable for direct application on exterior and interior water pipes lines. Sewer lines. Dams and Concrete locks, concrete water tanks, Fuel or Grains storage tanks. Tunnels, etc..</p>		
APPROVALS			
COMPONENT A	COMPONENT B	COLOURS	
GN114EP	H114EP	GN114EPG0000 (Clear), GN114EPG9003 (white), GN114EPG7000 (light grey).	

Physical Properties

GLOSS	Glossy.
SOLIDS BY VOLUME	100 % (theoretical).
VOC*	Max. 30g/Lt.
FLASH POINT	> 105°C (> 221°F) Setaflash
PHYSICAL PROPERTIES	<p>Density: 1,1 g/cm³</p> <p>Hardness Shore D: ~82 (7d/23°C) (DIN53505)</p> <p>Coating System Properties (GN114EP/GN132EFSL/GN205PF)</p> <p>Adhesion - Pull Off (ASTM D4541) Dry surface: >50 Kg/cm² (MPa) (710 psi) (or >1,5 Kg/cm² (MPa) cohesive on the concrete)</p> <p>Adhesion- Tape test (ASTM D3359) Rate - 5B (between finish coat GN2##PF and GN132EFSL)</p> <p>Abrasion Strength (ISO7784-2) 24 mg (1000 cycles / 1000 g / CS10)</p> <p>Barcol Resistance(ASTM D2583) 30</p> <p>Maximum Elongation (ISO/R 527) 2%</p> <p>Elasticity Modulus (ISO/R 527) 100,000 KgF/cm²</p> <p>Compressive Strength (ISO 844) 1.050 KgF/cm² (15,000 psi)</p>

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Flexural Strength (ISO 178) 650 KgF/cm² (9245 psi.)
 Impact Resistance (EN ISO 6272) IR4
 Deformation/Impact test (ASTM D2794) 1.22 Kgf.m (12,0 Joules)
 Exterior Exposure (ASTM D1014) 2 years- (Chalking) (ASTM D659): Rate 1
 QUV (Using A340 & B313 bulbs) 2000 hours – (Chalking) (ASTM D659): Rate 1
 Absorption (ASTM D570) 0,1%
 Fire Reaction (EN 13501-1) Bfl-s1

Application

SURFACE PREPARATION	<p>Painting Direct to Substrate: GlobalDur GN114EP is suitable for concrete surfaces prepared (dry or wet) accordingly with NACE N°6/SSPC-SP13 using: Mechanical Surface Preparation Methods. Chemical Surface Preparation Flame Cleaning and Blasting</p> <p>Apart from the surface preparation method, the moisture tolerance of GlobalDur GN114EpoxyPrimer allow the surface to be washed with tap water and let dry before painting, ensuring a final lower salts level.</p> <p>Over coated surfaces be sure of the old coating conditions (no coating defects and corrosion- in "sound conditions") and the compatibility with the GlobalDur GN114EP. Please contact Globalnavy office in case of any doubt or for further information.</p>
APPLICATION METHOD	<p>CONVENTIONAL METHODS: Due to the short pot life of the product, brush and roller are suitable. 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 GN114EP can be applied on dry or wet surfaces, even with 100% humidity.</p>
APPLICATION CONDITIONS	<p>The substrate temperature shall be between +5°-+50°C. The ambient temperature shall be >5°C . The concrete moisture should be lower than 6%. There is no dew point restrictions.</p>
APPLICATION DATA	<p>GlobalDur GN114 Epoxy Primer, is a two pack product, so the base and hardener must be mixed on the right ratio. First, mix well component A during 1 minutes. After that, add all the hardener and stir very well until it get homogeneous. Mix completely both quantities of component A and B packs.</p>
MIX RATIO	3 / 1 (by Weight) 2,7 / 1 (by Volume)
HARDENER	H114EP
POT LIFE	30 minutes (23°C/73°F).
THINNER	N.A.
SOLVENT / CLEANER	GN001TH / GN003TH
DRY TIME	<p>Surface dry: 5 hours at 23°C (73°F). Dry to recoat: Min: 14 hours at 23°C (73°F). Max: 7 days at 23°C (73°F).</p>
THEORETICAL COVERAGE	4.6 m ² /Kg (23 Sq.ft/Lb) - Dry/Wet: 200 microns (8 mils)
TYPICAL PAINT SYSTEM	<p>• GlobalDur GN114EP 1 x 150µm (dft) + GlobalDur GN101EP 1 x 150µm (dft)</p> <p>This is a system for water tank immersion conditions. Please contact GlobalNavy for other applications.</p>

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STORAGE	4 years (storage on the original tightly closed containers in a dry, cool, well ventilated space, at temperatures between 5°C - 30°C).
PACKING	Two pack product available in packs (A+B) 1, 5, 20 Kg.
FURTHER INFORMATION	When applying by air spray, care should be taken because of the short pot life of the product - For further information, please contact your Globalnavy office.
HEALTH SAFETY	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.

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