

GlobalDur GN123 Epoxy Resin



TECHNICAL DATA SHEET



Epoxy Resin Transparent Solvent Free

PRODUCT DESCRIPTION	<ul style="list-style-type: none"> ◆ GlobalDur GN123ER is an excellent epoxy primer solvent free for Concrete. ◆ GlobalDur GN123ER is specially design to have excellent transparency and UV resistance, mechanical and aesthetic properties. 		
PERFORMANCES	<ul style="list-style-type: none"> • Excellent transparency and UV resistance; • Excellent mechanical properties on mortars and glass reinforced fiber glass; • No harmful solvents- Solvent free; • Excellent wet ability to the substrates. • High mechanical properties. 		
RECOMMENDED USE	<p>PRIMER/INTERMEDIATE/FINISH OVER CONCRETE MARINE: Decks, Chain lockers, Tower bridge, etc. PROTECTIVE: Fiber glass reinforced laminates. Suitable for direct application on exterior and interior potable water pipes lines. Sewer lines. Dams and Concrete locks, primer on concrete water tanks, Fuel or Grains storage tanks. Flooring primer and epoxy mortar. Tunnels, etc..</p>		
APPROVALS			
COMPONENT A	COMPONENT B	COLOURS	
GN123ER	H123ER	Clear.	

Physical Properties

GLOSS	Glossy.		
SOLIDS BY VOLUME	100 % (theoretical)		
VOC*	Max. 50g/Lt.		
FLASH POINT	> 100°C (> 221°F) Setaflash		
PHYSICAL PROPERTIES	Density: 1,1 g/cm ³ (ISO4624)	Adhesion: >1.5 N/mm ² (cohesive rupture on concrete)	(DIN53505)
	Hardness Shore D: ~75 (7d/23°C)		(DIN53505)
	Abrasion Resistance: 70 mg (7d/23°C)		(CS10/1000/1000; ISO7784-2)

Application

SURFACE PREPARATION	Painting Direct to Substrate: GlobalDur GN123EP, is suitable for concrete surfaces prepared accordingly with NACE N°6/SSPC-SP13 using: Mechanical Surface Preparation Methods.
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Chemical Surface Preparation
 Flame Cleaning and Blasting
 Apart from the surface preparation method.
 Over coated surfaces be sure of the old coating conditions (no coating defects and corrosion- in "sound conditions") and the compatibility with the GlobalDur GN123EP. Please contact GlobalNavy office in case of any doubt or for further information.

APPLICATION METHOD	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.
APPLICATION CONDITIONS	The substrate temperature shall be 10°-50°C. The ambient temperature shall be >10°C . The concrete moisture should be lower than 4%. Surface temperature must always be a minimum of 3°C (5°F) above dew point.
APPLICATION DATA	GlobalDur GN123 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.
MIX RATIO	4 / 1 (by Weight) 3.5 / 1 (by Volume)
HARDENER	H123ER
POT LIFE	40 minutes (23°C/73°F).
THINNER	GN001TH
SOLVENT / CLEANER	GN001TH / GN003TH
DRY TIME	Surface dry: 4 hours at 23°C (73°F). Dry to recoat: Min: 16 hours at 23°C (73°F). Max: 7 days at 23°C (73°F).
THEORETICAL COVERAGE:	Epoxy mortar: 1 for 6 part by weight of inertes (GN060IN): 6.6 Kg/m ² - 3 mm de es
TYPICAL PAINT SYSTEM	• GlobalDur GN120ER 1 x 0,5 Kg (DFT) plus Colorized Quartz • GlobalDur GN120ER 2 x 0,5Kg (DFT) plus Colorized Quartz + GN123ER 1 x 0,40 Kg (dft). This is a flooring multilayer system conditions. Please contact GlobalNavy for other applications.
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) 5 Kg and 20 Kg.
FURTHER INFORMATION	The conventional air spray is only possible with well organize painting system, due to the short pot-life - Please contact our 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

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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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