GlobalDur GN133 Underwater Epoxy



TECHNICAL DATA SHEET

Epoxy Primer Underwater Solvent free Anticorrosive for Steel and GRP

PRODUCT DESCRIPTION	 GlobalDur GN133UE is a accordingly with environme GlobalDur GN133UE can surface treatment. GlobalDur GN133UE can immersion fast operational environmental conditions). 	solvent free epoxy paint designed for underwater application ental regulations. be applied directly over steel, concrete, wood and fiberglass, after be applied directly over steel and weldings in cases where na water time is required(24 hours at 23°C degrees, depending on		
PERFORMANCES	 Compatible with cathodic protection; Excellent water resistance; Easy application with conventional tools; Application on large areas with brush or roller by pump assistance is advised. Can be applied by air spray above water line thinning with GN006TH. 			
RECOMMENDED USE	Underwater steel and concrete structure's repairs, dams, repaired steel welding areas, splashzone, pipes underwater or high condensation, water tanks, etc			
APPROVALS				
COMPONENT A	COMPONENT B	COLOURS		
GN133UE	H133UE	GN133UEG9003 (white), GN133UEG7000 (grey). For other colours, please contact GlobalNavy's office.		

Physical Properties

GLOSS	Glossy.	
SOLIDS BY VOLUME	100 % (theoretical).	
VOC*	NA	
FLASH POINT	> 100ºC (> 212ºF) Setaflash	
PHYSICAL PROPERTIES	Density: 1,25 g/cm ³	
Application		

SURFACE PREPARATIONPainting Direct to Substrate: GlobalDur GN133UE is suitable for steel, concrete, GRP surfaces
prepared by mechanical tools or blasting, accordingly with the following standards:
Grit Blasting: SA1 (ISO 8501-1:1988).
Wet Blasting:WAB 6/10 (SSPC Vis 5/NACE Vis 9)
Mechanical Treatment: St3 (ISO 8501-1:1988).
Coated Surfaces: Before application of GN133UE, clean surface if any fouling or debris has settled
on surface with abrasive discs. Surface should be free of oil or grease contamination paint before
application to avoid failures. Apply soap or degreaser. For more detail's contact GlobalNavy's

ISSUED | / 38 / 02 / EN / 01-04-2024

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	office.		
APPLICATION METHOD	Brush or roller. A power roller is recommended for quickest application. Non underwater areas, can be applied by air-less spray, specially for one coat applications to avoid holydays and pin holes. Usually it is necessary to thin <5% with GN006THG0000.		
APPLICATION CONDITIONS	Water temperature must be > 1°C (18°F).		
APPLICATION DATA	GlobalDur GN133 Underwater Epoxy is a two pack product, so both components must be mixed on the right ratio. This mixing shall be donein dry conditions. First, component A should be well mixed during 2 minutes. After that, add component B and stir very well until it get homogeneous. If over agitated, pot life will be reduced. High temperatures will reduce pot life and low temperatures will increase pot life.		
MIX RATIO	4 / 1 (by weight) and 3 / 1 (by volume)		
HARDENER	H133UE		
POT LIFE	40 minutes at 23°C (73°F).		
THINNER	NA. Above water line 5% of GN006THG0000.		
SOLVENT / CLEANER	GN003TH Epoxy thinner		
DRY TIME	Surface/Hard dry: Approx. 4 hours at 23°C (73ºF) Recoat: Min: 8 hours at 23°C (73ºF)); Max: 7 days at 23ºC (73ºF). After that surface must be reactivated.		
THEORETICAL COVERAGE	3,84 Sq.m/Kg. (18,8 Sq.ft/Lb) Dry/Wet: 200 microns (8 mils).		
TYPICAL PAINT SYSTEM	• GlobalDur GN133UE 2 x 200 grams for submerse areas. For other situations, please contact GlobalNavy's office.		
STORAGE	2 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) of 1 Kg, 5Kg, 20 Kg.		
FURTHER INFORMATION	Contrasting colours for each coat and stripe coating are recommended. If exact colour matching is required, ensure that GN132EFSL in each area is applied from the same control batch numbers.		
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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GlobalDur GN133UE - Additional Information

CURING TIME TABLE							
GN1	01LC			15°C	20°C	25°C	30°C
Pot Life				160 minutes	120 minutes	35 minutes	50 minutes
Dry to touch (Max.)				6 h	4,5 h	4 h	3 h
Foot traffic				12 h	9 h	8 h	6 h
Recoating	Min.			10 h	7 h	6 h	4 h
period	Max.			7 days	7 days	6 days	5 days

PHYSICAL PROPERTIES

Adhesion - Pull Off (ISO 4624:2023)	Steel (dry/wet) surface: >50 Kg/cm ^{2 (MPa)} (710 psi) Concrete (dry/wet) surface: > 1,5 Kg/cm2 (Mpa) (21 psi) (Cohesion failure on concrete)
Abrasion Strength (ISO 7784-2)	72 mg (1000 cycles / 1000 g / CS10)
Impact Resistance	IR 4
Barcol Resistance(ASTM D2583)	26
Elasticity Modulus (ISO/R 527)	120,000 KgF/cm ²
Salt spray resistance (ASTM B117)	Without defects - 2000 hours
Hardness Shore D (DIN 53505)	~85 (7d/23°C)
Maximum elongation (ISO/R 527)	>3%
Flexural Strength (ISO 178)	650 KgF/cm ² (9245 psi)
Deformation/Impact test (ASTM D2794)	1.22 Kgf.m (12,0 Joules)
Barcol Resistance(ASTM D2583)	30
Immersion in artificial salt water (ASTM D870)	Without defects - 2000 hours
QUV (Using A340 & B313 bulbs)	2000 hours – Chalking (ASTM D659): rating 4
Deformation/Impact test (ASTM D2794)	30 Kg.cm
Absorption (ASTM D570)	0,20%