GlobalDur GN133 Epoxy Novolac

TECHNICAL DATA SHEET

Epoxy Novolac Primer Converter and Moisture Tolerant

PRODUCT DESCRIPTION	♦ GlobalDur GN133EN is an excellent epoxy novolac/amine two pack anticorrosion DF-primer/finish for steel. It is also suitable to be applied over concrete. ♦ GlobalDur GN133EN is specially designed to have high chemical resistance. ♦ GlobalDur GN133EN is a primer specially designed for excellent chemical resistance performances at high temperatures. ♦ GlobalDur GN133EN can be applied as a primer, intermediate or finish (however may have slight colour differences due to its particular curing properties).
PERFORMANCES	• Excellent anticorrosive performance club with high chemical resistance; • No humidity/dew point application restrictions; • Excellent resistance to wearing and impact; • Excellent anticorrosive properties at high temperatures up to 180°C (356°F), depending on operation conditions; • Excellent adhesion to substrate and between coats; • Surface preparation cost reduction; • Excellent edge retention.
RECOMMENDED USE	PRIMER/INTERMEDIATE/FINISH OVER STEEL MARINE: ballast tanks, fuel/crude oil tanks, decks, bilge and void areas, double bottoms, rigs, offshore platforms, etc.; in areas where high chemical resistance is necessary. PROTECTIVE: Storage Chemical Tanks, machinery(like mining), railroad cars, metallic structures(like mining), lead and other coatings covered structures, interior/exterior of fuel or sewage pipe lines. PRIMER/INTERMEDIATE/FINISH OVER CONCRETE PROTECTIVE: Tanks, concrete floorings, concrete structures, interior/exterior of sewage pipe lines, where a high chemical resistance is required.
APPROVALS	Complies with ISO 12944-5, as being suitable for coating systems until C5-M.

COMPONENT A	COMPONENT B	COLOURS
GN133EN	H133EN	GN133ENG7000 (Light Grey), GN133ENG3009 (Red Iron Oxide). For other colours, please contact GlobalNavy's office.

Physical Properties

GLOSS	Gloss.
SOLIDS BY VOLUME	100 % (theoretical).
VOC*	<90 g/L.
FLASH POINT	> 100° C (> 77°F) Setaflash
PHYSICAL PROPERTIES	Density: 1,35 g/cm³

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Application

SURFACE PREPARATION	Painting Direct to Metal: GlobalDur GN133Epoxy Novolac is suitable for surfaces prepared by hydroblasting, grit blasting (dry or wet) and mechanical, accordingly with the following standards: Grit Blasting: SA2 (ISO 8501-1:2007) Wet Blasting:WAB-6 M (NACE 6G198, NACE Vis 9) Hydroblasting: Wj2-M (SSPC SP12 – VIS4(I) / NACE Nº5- Nº7) Mechanical Means: St3 (ISSO 8501-1:2007) Apart from the surface preparation method, the moisture tolerance of GlobalDur GN133Epoxy Novolac 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 GN133Epoxy Novolac allow a painting with a flash rust until M degree (standard SSPC VIS4(I) / NACE Nº7). 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 GN33Epoxy Novolac. Please contact Globalnavy office in case of any doubt or for further information.
APPLICATION METHOD	SPRAY: Use air less spray. Use an equipment with a compressing 63:1 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 specified DFT. When applying on enclosed areas ensure a good ventilation. It is not necessary to use dehumidification equipment: GlobalDur GN133EN can be applied on dry or wet surfaces, even with 100% humidity and surface temperatures below the dew point.
APPLICATION CONDITIONS	The substrate temperature shall be 10°-50°C. The ambient temperature shall be >14°C and moisture >15%. There is no dew point restrictions.
APPLICATION DATA	GlobalDur GN133 EpoxyNovolac 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.
MIX RATIO	5,2 / 1 (by Weight) 3,3 / 1 (by Volume)
HARDENER	H133EN
POT LIFE	90 minutes (23°C).
THINNER	GN001TH / GN003TH
SOLVENT / CLEANER	GN003TH
DRY TIME	Surface dry: 8 hours at 23°C (73°F) Dry to recoat: Min: 12 hours at 23° C (73°F). Max: 5 days at 23°C (73°F).
THEORETICAL COVERAGE	6.7 Sq.m/Lt. (256,4 Sq.ft/US gal - Dry/Wet: 150 micron (6 mils).
TYPICAL PAINT SYSTEM	• GlobalDur GN133EN 2 x 200µm (DFT). This is a system for immersion conditions. Please

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	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 L and 20 L.
FURTHER INFORMATION	The conventional air spray is only possible with a much higher dilution ratio, so it only should be used on special applications - Please contact our GlobalNavy´s office. For further chemical resistance see "Chemical Ressitance Table".
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.

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