

GlobalDur GN153Epoxy Waterbased FC



TECHNICAL DATA SHEET



Epoxy Waterbased Finishing Coating Fast Curing

PRODUCT DESCRIPTION	<ul style="list-style-type: none"> ◆ GlobalDur GN153EWFC is a high solids epoxy paint Multiproposal for steel and concrete. ◆ GlobalDur GN153EW is a economic epoxy system glossy designed for application to recoat or apply as intermediate or finishing coating. 	
PERFORMANCES	<ul style="list-style-type: none"> • High Solids; • Excellent impact resistance; • Excellent performance properties; • No organic solvent odor and no flammable risk during application and dry; • Excellent aesthetic effect; • Good Abrasion resistance and flexibility; • Good chemical resistance to alkali, acid and petroleum products; • Good adhesion over wet and dry concrete, over primer and between coats. 	
RECOMMENDED USE	<p>PRIMER/INTERMEDIATE/FINISH OVER CONCRETE PROTECTIVE: Internal Flooring and walls on industrial facilities, car parkings, power stations, warehouses, hospitals, etc., where washability and solvent resistance to degreasers are important.</p> <p>OVER STEEL PROTECTIVE: intermediate and finish on Internal walls on industrial facilities, car parkings, power stations, warehouses, hospitals, steel structures, transportation devices, etc., where anticorrosive, washability and solvent resistance to degreasers are important.</p>	
APPROVALS	Complies with EU Directive 2010/42/EC: subcategory j (VOC< 140 g/l).	
COMPONENT A	COMPONENT B	COLOURS
GN153EWFC	H150EWFC	GN153EWFCG9003 (White), GN153EWFCG9005 (Black), RAL colours. For other colours catalogue, please contact GlobalNavy's office.

Physical Properties

GLOSS	Glossy.
SOLIDS BY VOLUME	70 ±2% (Volume). 75 ±2% (weight).
VOC*	100g/L (130g/Kg).
FLASH POINT	101°C (214°F) Setflash.
PHYSICAL PROPERTIES	<p>Density: 1,3 g/cm³</p> <p>Adhesion:>50 Kg/cm² (MPa) (710 psi) (or >1,5 Kg/cm² (MPa) cohesive on the concrete)</p> <p>Impact Resistance (EN ISO 6272): 80Kg.cm</p> <p>Abrasion Resistance (JIS K5600-5-8:1999): 0,45 Kg/cm²</p>

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Compressive Strength (JIS K5511:2003): 48,0Mpa
Flexural Strength (TVCN 2099: 2013): 3mm

Application

SURFACE PREPARATION	All the surfaces has to be clean, dry and without contamination. The surface should be evaluated and treated accordingly with ISO 8504. Coated Surface: Clean, undamaged and dry compatible primer. Other Surfaces: Check the suitability of GN153EWFC, apply a suitable primer following its Technical Data Sheet and then apply GN153EWFC. Contact GlobalNavy office for further information.
APPLICATION METHOD	GlobalDur GN153EW can be applied by squeege, roller, brush. Air-less spray: Use na equipment with a compressing 45:1 ratio, na inlet 3 bar pressure, allowing a 210-260 bar outlet pressure. A 0,019" or 0,0 21" tip is recommended. Conventional spray equipment only on special application conditions- contact GlobalNavy for more information.
APPLICATION CONDITIONS	The substrate temperature shall be 10°-+50°C. The ambient temperature shall be >15°C. Do not apply GN153EWFC with Humidity higher than 80%. In case of applying GN153EWFC as primer can be thin with 5% of water or GN008TH. When applying as intermediate or finish thin with water for orange peel surface or with GN008TH until 10% in all coats in order to achieve a better levelling surface.
APPLICATION DATA	GlobalDur GN153EW is a two pack product, so both components must be mixed on the right ratio. Mix only using electrical mixer. First, component A should be well mixed during 2 minutes. After that, add component B and stir very well until it get homogeneous. Only after that the water/thinner should be add and continously mixed. If over agitated, Pot Life will be reduced. High temperatures will reduce Pot Life and Low temperatures will increase Pot Life.
MIX RATIO	2 / 1 (by weight) and 1.5 / 1 (by volume)
HARDENER	H150EWFC
POT LIFE	10 minutes at 23°C (73°F).
THINNER	Water / GN008TH
SOLVENT / CLEANER	GlobalThin GN003TH / GN008TH.
DRY TIME	Surface dry: Approx. 5 hours at 23°C (73°F) and 50% Rh; 30 minutes at 60°C (73°F) and 50% Rh; Recoat: Min: 12 hours at 23°C (73°F); 30 minutes at 60°C (73°F) and 50% Rh; Max: 2 days at 23°C (73°F). After that surface must e reactivated with solvents or clean with HP water. For foot traffic/Loading: 16h / 2 days. For Chemical Resistance : 7 days.
THEORETICAL COVERAGE	14 Sq.m/Kg for a 50 microns DFT. (65 grams wet by sqm -19,6 Sq.ft/ Lb.).
TYPICAL PAINT SYSTEM	• Primer (dry concrete) GlobalDur GN 150EW 1 x 200gr; • Primer (dry/wet concrete) GlobalDur GN114EP 1 x 40µm GlobalDur GN 153EWFC 1 x 50µm; • Primer steel GlobalDur GN 101EP 1 x 200µm, • Top coat GN153EW 1 x 100 gr.
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 5 Kg and 25 Kg.

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FURTHER INFORMATION

For the safety of the applicator and the good performance, ventilation should be provided to all portions of the enclosed area.
If exact colour matching is required, ensure that GN150EW 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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