GlobalEster GN600 Epoxy GlassFlake Vinyl Ester



TECHNICAL DATA SHEET



GlassFlake Composite EpoxyVinyl Ester

PRODUCT DESCRIPTION

- ♦ GlobalEster GN600EV is a solvent free epoxy vinylester with glass flake composite to improve thickness and mechanical properties.
- ♦ GlobalEster GN600EV is designed for application over recommended primer, on dry surfaces with na high resistance to a wide range of chemicals.

PERFORMANCES

- Excellent chemical resistance;
- High thickenss by coat -2mm.
- Excellent temperature resistance on operation- until 210°C (depending on the chemical -see table);
- · Good flexibility;
- Excellent impact resistance;
- Excellent mechanical properties on mortars and as glass reinforced fiberglass;
- Solvent free
- Excellent wet ability to the substrates;
- High mechanical and chemical resistant properties at high temperatures- see "GN600EV/GN601EV Chemical Resistance Table".

RECOMMENDED USE

Pipelines; Concrete and steel storage tanks; FGD (Flue Gas Desulfurization equipment); scrubers, etc..

Resistant at high operation temperatures to alkali, organic acids, inorganic acids, vegetable oils, etc (see Chemical Resistance Table for chemicals and temperatures for more details).

APPROVALS

COMPONENT A	COMPONENT B	COLOURS
GN600EV	H600EV/C600EV	GN600EVG0000 (Colourless); GN600EVG7035 (Grey);
		GN600EVG9010 (off-white). For other colours, please contact
		GlobalNavy's office.

Physical Properties

GLOSS	Glossy.			
SOLIDS BY VOLUME	100% (theoretical).			
VOC*	EU Legislation: 50 g/L			
FLASH POINT	>32°C (Pensky-Martens closed cup - ISSO 2719)			
PHYSICAL PROPERTIES	Mechanical properties* measured for a 3.5mm thickness casting sample, at standard conditions of 1 day at 23°C + 2hours at 120°C:			
	Property Measured:	Value	Unit	Standard
	Tensile Strength:	82	MPa	ASTM D638
	Compressive Strength:	85	MPa	ASTM C579

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Tensile Modulus:	3.7	GPa	ASTM D638
Elongation:	5.0-5.8	%	ASTM D638
Flexural Strength:	148	Мра	ASTM D790
Flexural Modulus:	5.5	Gpa	ASTM D790
Heat Distortion Temperature:	206	ōC	ASTM D648
FGD Systems:	Pass	Method A (177ºC)	ASTM D5499
Volumetric shrinkage:	3.9	%	ASTM D2566
Adhesion (concrete):	>2.5	Мра	ASTM D4541
Adhesion (steel):	10.5	Мра	ASTM D4541
Abrasion Resistance:	75mg	CS17/1000g/1000cycles	ASTM D4060
Hardness (coating):	84	Shore D	ASTM D2240
*Typical properties only, not	to be cons	trued as specifications.	
Density: ~1.1 g/cm³			

Application

SURFACE PREPA	RATION
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All the surfaces have to be clean, dry and without contamination. The surface should be evaluated and treated accordingly with ISO8504.

Coated Surface: Clean, undamaged and dry compatible primer. Contact GlobalNavy office for more information.

Other Surfaces: Check the suitability of GN600EV, apply a suitable primer following its Technical Data Sheet and then apply the GN600EV. Contact GlobalNavy office for further information.

APPLICATION METHOD

GlobalEster GN600EV can be applied by roller, brush, trowel, squeegee. Due to its short pot-life and viscosity, the application by air spray it is not advisable.

APPLICATION CONDITIONS

GlobalEster GN600EV must be applied over dry and clean surfaces. Substrate temperature should be between 10-32°C. Relative humidity 85% maximum.

APPLICATION DATA

GlobalEster GN601EpoxyVinyl Ester is a three pack product, so all components must be mixed on the right ratio. First, add component H600EV and mixed during 1 minute. After that, add component C600EV and stir very well for 1 minute until it get homogeneous. NEVER MIX H600EV WITH C600EV. If over agitated, pot life will be reduced. High temperatures will reduce pot life and low temperatures will increase pot life.

MIX RATIO

Depending on Temperature and Ageing: (at 20°C) 2% H600EV / 0.5%C600EV (by weight). Previouse reaction test should be made on spot, before starting the application.

HARDENER

H600EV/C600EV

POT LIFE

15 minutes at 23°C (73°F) (resin)(depending on the hardener and accelerator % and its ageing).

THINNER

NA

SOLVENT / CLEANER

GlobalThin GN001TH/GN077TH.

DRY TIME

Surface dry: Approx. 6 hours at 23°C (73°F) and 50% Rh;

Recoat: Min: 8 hours at 23°C (73°F); Max: 7 days at 23°C at (73°F). After that surface must e reactivated sweep blasting or sanding.

THEORETICAL COVERAGE

4.4 Sq.m/Kg. (18.1 Sq.ft/ Lb.) Dry/Wet: 200 microns (8 mils).

TYPICAL PAINT SYSTEM

Primer (dry concrete) GlobalDur GN 120ER 1 x 200μm;
Primer (wet concrete) GlobalDur GN 114EP 1 x 200μm;
Primer (steel) GlobalDur GN 101EP/GN101HT 1 x 200μm,
GlobalEster GN601EV 1 x 0.40 Kg (dft)
Top Coat GlobalEster GN601EV 1 x 200μm.

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STORAGE	ALWAYS STORE H600EV BELOW 50°C (PREFERABLY ON COOL TEMPERATURES) AND
PACKING	Two pack product, available in packs (A+B) of 5 Kg and 20 Kg.
FURTHER INFORMATION	Depending on the hardener and accelerator % and its ageing). For the safety of the applicator and the good performance, ventilation should be provided to all portions of the enclosed area.
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

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.

health, safety hazards and precautions for the use of this product.

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