

GlobalSyl GNZS01HB Zinc EthylSilicate



PERFORMANCE IN COATINGS

TECHNICAL DATA SHEET

High Build Zinc Ethyl Silicate

PRODUCT DESCRIPTION	◆ GlobalSyl GNZS01HB is an excellent high build zinc ethyl silicate. ◆ GlobalSyl GNZS01HB is a primer with excellent anti corrosive performance.	
PERFORMANCES	<ul style="list-style-type: none">• Excellent anti-corrosive protection;• Easier application due to high built thickness and fast dry;• High solids;• High zinc content on the dry film;• Good chemical resistance for organic solvents.	
RECOMMENDED USE	PRIMER OVER STEEL MARINE: Ethanol/Methanol tanks. Offshore structures, Shiplside's, Superstructures, etc.. PROTECTIVE: Bridges, machinery, railroad cars, metallic structures, exterior/interior of pipe lines, etc..	
APPROVALS	◆ Complies with EU Directive 2010/42/EC: subcategory j (VOC< 500 g/l). ◆ Complies with ISSO 12944-5, as being suitable for coating systems until C5-M. ◆ Complies with SSPC zinc content level 1.	
COMPONENT A	COMPONENT B	COLOURS
GNZS01A	HZS01B	GNZS01HBG7000 (Grey).

Physical Properties

GLOSS	Matte.
SOLIDS BY VOLUME	60 % ± 2 %.
VOC*	< 340g/L.
FLASH POINT	> 45°C (> 113°F) Setaflash
PERFORMANCE	

Application

SURFACE PREPARATION	Painting Direct to the Substrate: GlobalSyl GNZS01HB is suitable for steel surfaces prepared by grit blasting, accordingly with the following standards: Grit Blasting: SA3 (ISSO 8501-1:1988). Abrasives of good quality should be use in order to assure the lowest surface contamination. Please contact GlobalNavy office in case of any doubt or for further information.
APPLICATION METHOD	SPRAY: Use air less spray. Use na equipment with a 130-160 bar outlet pressure. A 0,017" - 0,019" tip is recommended. On conventional air spray equipment, it is advisable to use a pressure vessel adding the less possible thinner. Continuous agitation should be done. CONVENTIONAL METHODS: Brush and roller are suitable only for touch up. When applying on enclosed areas ensure a good ventilation.

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APPLICATION CONDITIONS	The substrate temperature should be 5°C (41°F) - 40°C (104°F) and at least 4°C (7°F) above the dew point of the air, measured in the vicinity of the surface. Assure a good ventilation in confined areas to ensure a proper drying. Relative humidity should be between 50% - 90%. For relative humidity below 50%, it is necessary to do water misting after 1 hour the application. When applying on enclosed areas ensure a good ventilation. CONVENTIONAL METHODS: Brush and roller are suitable only for touch up.
APPLICATION DATA	GlobalSyl GNZS01 High Build, is a two pack product, so the base and hardener must be mixed on the right ratio. First, mix well component A during 3 minutes. After that, add all the hardener and stir very well until it get homogeneous. If necessary, for na application optimization adjustment, the product can be diluted until 10 % (v/v) with GN515TH. Mix completely both quantities of component A and B packs. Continuous low agitation is necessary during the application. Low temperature cause higher pot life, and higher temperatures decrease mixture pot life.
MIX RATIO	0,23 / 1 (by Weight) 1,57 / 1 (by Volume)
HARDENER	HZS01B
POT LIFE	4 hours (23°C).
THINNER	GlobalThin GN515TH.
SOLVENT / CLEANER	GN515TH/GN010TH
DRY TIME	Surface dry: 30 minutes at 23°C (73°F). Dry to recoat: Min: 24 hours at 23°C (73°F). Max: 7 days at 23°C (73°F).
THEORETICAL COVERAGE	8,0 m2/Lt (325,6 Sq.ft/US gal) - Dry: 75 µm (3 mils) and • Wet: 125 µm (5 mils)
TYPICAL PAINT SYSTEM	• GlobalSyl GNZS01HB 1 x 100µm (DFT) typical system for immersion conditions. • GlobalThane GN206FP 1 x 50µm (DFT). This is a typical system for non immersion conditions. Please contact GlobalNavy for other applications.
STORAGE	HZS01B: 2 years / GNZS01A: 1 year (storage on the original tightly closed containers in a dry, cool, well ventilated space, at temperatures between 5°C - 40°C).
PACKING	Two pack product, available in packs (A+B) 5 L and 20 L.
FURTHER INFORMATION	The higher dry film thickness of 140µm (230 µm wet) never should be over come, otherwise the coating can show ethyl silicate zinc typical defects- mud cracking.
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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