



Guard 40

Two Component High Solid Food Grade Epoxy Coating

Pack Size
15Kg

TDS
Technical Data Sheet



Description

CLI Guard 40 is a WRAS Approved Food Grade Epoxy Coating designed for internal coating of pipes, vessels, and other equipment used for potable water. It conforms to BS 6920:2000 and AWWA C 210 standards.

Advantages

CLI Guard 40 offers excellent food-grade properties and adhesion to surfaces, providing robust corrosion protection. It also exhibits good temperature and abrasion resistance.

Application

This product is ideal for internal coatings of potable water pipelines and storage facilities.

Application Methodology

Prepare the surface by mechanical grinding or shot blasting, conforming to SA 2½ standards. Remove dust, flakes, oil, grease, or other loose foreign particles by sandblasting, iron brushing, or using compressed air. Stir drums of each component thoroughly for uniformity. For best results, use a variable speed drill mixer with a spiral-type blade at the bottom of the stirrer rod at 400-600 rpm. Preheat Part A to 50-65°C and Part B to 25-40°C. Apply CLI Guard 40 using a plural feed airless spray gun to achieve the required thickness on the substrate. Adjust the tip pressure to 2500-4000 psi for good atomization, typically using a tip size of 19-25 Thou orifice. For coating repair, use a brush application with the same material, ensuring that Component A and Component B are mixed as per the requirement of the repair job. Heating of individual components is not necessary for repair jobs.

Characteristics

Material Property	Result	Testing Method
Color	Dark Brown / Light Yellow / White	NA
Ratio	3:1 By Weight	NA
Pot Life @ 28°C, 55% RH, 100 g	22 ± 3 min	In House
Touch Dry @ 27°C, 55% RH, hr	Within 1 hr	In House
Hard Dry @ 27°C, 55% RH, hr s	6-8 hour	In House

Full Cure @ 27°C, 55% RH, days	7	In House
Volume Solids	~ 100 %	In House
Specific Gravity (Mixed) @ 27°C	1.49 ± 0.02	In House
Film Thickness, micron	415±15	SSPC- PA 2
Compressive Strength (MPa)	70	ASTM C 109
Theoretical Coverage,	m ² /L 2.32	In House
Hardness (Shore D), minute ASTM	80- 85	D 2240
Adhesion to Steel (psi)	>2000	ASTM D 4541
Long term contact with potable water for human consumption	No Effect	NSF/ANSI-61
Application Temperature	10 - 60°C with RH < 75%	NA
Scratch Resistance	No failure at 1.5 kg load	IS:101

CLEANING & MAINTENANCE

Clean all tools immediately after use with STP cleaner.

HEALTH & SAFETY

Use a mask, nose cover, and hand gloves during application. Clean hands with soap and water after application. Avoid contact with skin and eyes. Do not use solvents to clean contacted areas.

Prevent swallowing; in case of ingestion, seek immediate medical attention and do not induce vomiting.

PACKING Available in 13 kg sets: Part A - 9 kg, Part B - 3 kg.

STORAGE AND SHELF LIFE

Store in a cool, dry place under shade away from heat. The product has a shelf life of 9 months in its original unopened sealed condition.

CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

NOTE The information supplied in this datasheet is based on extensive experience and is given in good faith to help you. Our Company policy is one of continuous Research and Development, and we reserve the right to update this information at any time without prior notice. We guarantee the consistent high quality of our products; however, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

Pack Size

15Kgs



Data Reliability

All technical data provided in this document are based on laboratory tests. Actual performance may vary due to factors beyond our control.

Regional Compliance

Product specifications may vary based on local regulations. Please refer to the local Product Data Sheet for precise information.

Legal Disclaimer

The information and recommendations regarding the application and end-use of Carbolink products are provided in good faith based on our current knowledge and experience. Due to variations in materials, substrates, and actual site conditions, no warranty of merchantability or fitness for a specific purpose can be inferred. The user must determine the product's suitability for the intended application. Carbolink reserves the right to change the properties of its products. All proprietary rights of third parties must be observed. Orders are subject to our current terms of sale and delivery. Always refer to the most recent local Product Data Sheet, available upon request.