



## Berth 1&2 Concrete Structure Repairs

**Guyana Shore Base Inc.** hereby invites interested companies to submit proposals to perform required **elevated and over water concrete structure repairs** at Guyana Shore Base Inc., Houston, East Bank Demerara as per specifications outlined below.

### Scope of Work:

- Supply & install required scaffolding to access work areas
  - Weekly or monthly rental
  - Work area is 193m x 19m (Appendix A)
  - Scaffolding may be installed in a phased approach
- Remove damaged concrete components (Appendix A)
  - Utilize hand tools & small chipping hammers (5-10 pounds)
  - Removal limits to be confirmed by GYSBI QC technician
- Repair concrete components
  - Utilize Renderoc HB40 (Appendix B)
  - Follow manufacturer's instructions for mixing and application
- All exposed rebar to be treated per the materials listed below
  - Cleaning of rebar
    - Utilize Rustaway IND-630 (Appendix C)
    - Follow manufacturer's instructions for application
  - Rebar protection
    - Utilize Fosroc Nitoprime Zincrich epoxy resin primer (Appendix D)
    - Follow manufacturer's instructions for application

### Interested suppliers are required to submit the following:

- Detailed cost proposal
  - Based on time & material
- Project schedule and logistics plan
  - Access to be determined by operational requirements
  - Work interruptions to be expected with access gaps
- Payment terms and conditions
- Proof of compliance with local content requirements in Guyana

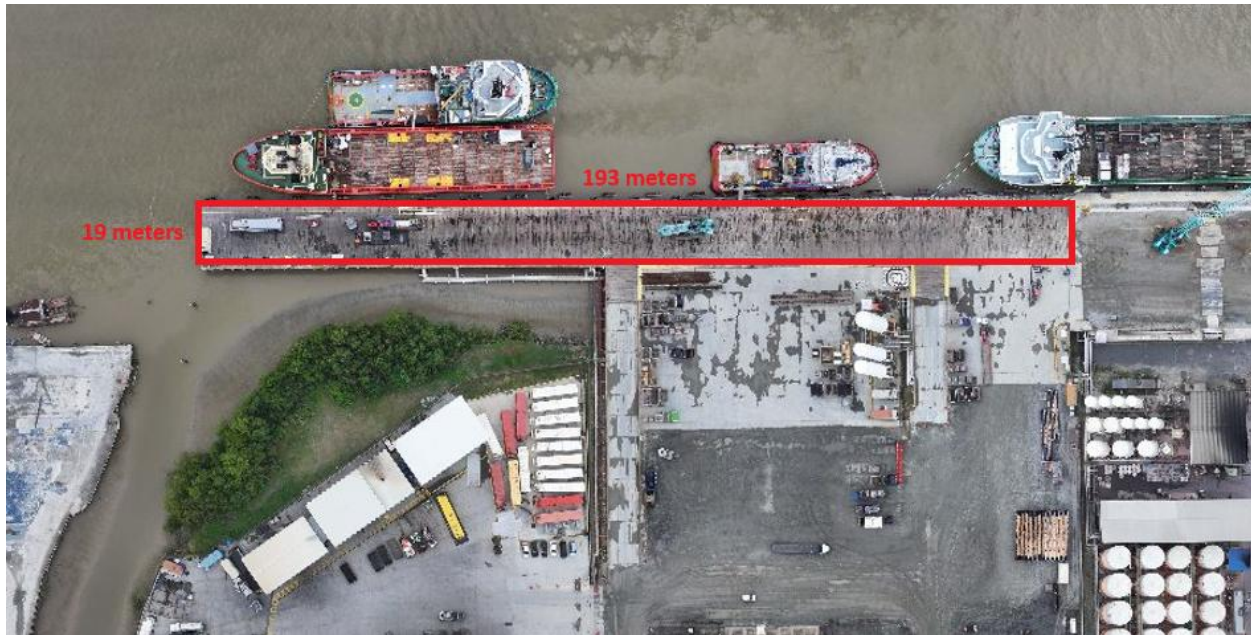
1. Refer to the GYSBI Safety Manual (available upon request) for safe working procedures and requirements, including base access.
2. Shortlisted bidders will be subject to Gysbi's Vendor Prequalification Assessment.

Please ensure that you register with us and upload your valid registration documents on our company portal at <http://visit.gysbi.gy/register>.





Release date: 26 Feb 2025



Appendix A – work area / typical issue



## Renderoc HB40

High performance medium-weight concrete reinstatement mortar

### Uses

For the reinstatement of large areas of reinforced concrete where low permeability characteristics are required and where higher compressive strength is an important consideration. Renderoc HB40 has been engineered for the repair of columns and beams but, because of its relatively low fresh wet density, is also suitable for soffits and other overhead repair work. The mortar can also be used for small, localised patch repairs.

Where compatibility with lower strength concrete is required, but low permeability and high-build characteristics are important, Renderoc HB25 should be used.

### Advantages

- Maximum compatibility with concrete of compressive strength greater than 30 N/mm<sup>2</sup>
- High-build applications possible while maintaining higher compressive strengths - fewer cold joints
- Frequently obviates the need for formwork
- Polymer-modification provides extremely low permeability to water, carbon dioxide and chlorides
- Exceptional system of shrinkage compensation provides long-term dimensional stability
- Can be applied quickly and efficiently by wet spraying
- One component, pre-bagged to overcome site-batched variations
- Contains no chloride admixtures
- Renderoc Galvashield XP compatible

### Standards compliance

Renderoc HB40 has been approved by the British Board of Agrément, Certificate No. 98/3461.

Renderoc HB40 has been tested and approved in accordance with the Hong Kong Housing Authority Specification TM1 to TM8 (1990).

### Description

Renderoc HB40 concrete reinstatement mortar is supplied as a ready to use blend of dry powders which requires only the site addition of clean water to produce a highly consistent, medium-weight repair mortar. It gives good handling characteristics while minimising water demand. The low water requirement ensures good strength gain and long-term durability.

Renderoc HB40 is designed to achieve maximum compatibility with concrete with a compressive strength greater than 30 N/mm<sup>2</sup>.

Build can be dramatically increased by wet spraying. Typical achievable thicknesses are 70 to 110 mm vertically and 60 to 85 mm overhead, although this will depend on substrate profiles and the distribution of steel reinforcement. Consult the local Fosroc office for further information.

Where strengths below 30 N/mm<sup>2</sup> and/or higher builds are required, Renderoc HB25 should be used.

## Appendix B - Renderoc





**TECHNICAL DATA SHEET**

**RUSTAWAY- (ITEM CODE: IND-630)**

ACID-BASED RUST REMOVER / RENOVATOR

RUSTAWAY is a blend of specially selected acids, surfactants and corrosion inhibitors. It is ideal for use where rusted objects are to be cleaned free of rust and prepared for painting or priming. RUSTAWAY efficiently dissolves rust and provides an etched surface, which guarantees improved paint adhesion.

ADVANTAGES

RUSTAWAY penetrates through grease and dirt in one operation.

RUSTAWAY does not irritate minor skin contact and has no dangerous fumes.

RUSTAWAY high concentration allows economical dilution.

RUSTAWAY when handled as recommended is non-flammable and very low toxicity to the environment.

INSTRUCTIONS FOR USE

All loose flaking rust and dirt are to be removed from the surface and a generous application of RUSTAWAY is to be applied over the area to be treated. This should be left to react depending on the severity of the rust build up. Generally up to 20 minutes. Extremely heavy deposits may require a second application.

If area treated is not to be painted but a rust resistant surface is desired, simply wipe off any surplus RUSTAWAY and leave to dry. If the surface is to be painted, best results are obtained by rinsing off all RUSTAWAY residue and allowing the surface to dry thoroughly before painting.

GENERAL PROPERTIES

Appearance	- Pink clear Liquid
Odour	- Solvent
Specific Gravity	- 1.2
% Acidity	- 24 %

COVERAGE

Approximately 800 sq. feet per 4 litre (1 gallon) container – one coat.

CAUTION

RUSTAWAY is based on selected Phosphoric Acid which may attack some surfaces. We recommend that a trial be performed on a small inconspicuous area to ascertain the suitability prior to use.

RUSTAWAY is an acid based product and as such care should be taken to read the MSDS for detailed information on the product.

OTHER SCL PRODUCTS INCLUDE

**MULSOLV RTU** - Solvent based degreaser and emulsifier.

**SPEKLEAN** - Water based degreaser, stripper and cleaner.

**LECTRASPEC** - Electrical degreaser and cleaner.

Appendix C – Rustaway



**Fosroc®**  
**Nitoprime® Zincrich**



**Zinc-rich epoxy resin primer to protect steel reinforcement within repair mortars**

**Uses**

Nitoprime Zincrich is the recommended anti-corrosion primer for exposed steel reinforcement for use with Renderoc concrete repair mortars. The product provides a barrier to further corrosive elements such as chlorides attacking the steel. Compatible with all Renderoc mortars and fluid micro-concretes.

**Advantages**

- Excellent protective barrier to the steel from further corrosive attack
- Formulated for use with Renderoc repair products
- Single component product - easy to use with no restrictive pot-life
- Time saving - touch dry after 15 - 45 minutes
- Economical - single component ensures almost no waste
- Complies with AS4020:2018 - suitable for use in drinking water.

**Standards Compliance**

Nitoprime Zincrich has been approved by the British Board of Agreement, Certificate No. 91/2582 as part of the Renderoc system of concrete repair.

Conforms to AS/NZS 3750.9 Type 1.

Nitoprime Zincrich has been tested to comply with AS4020:2018. Refer to AWQC Report 354931. Copies of the certification are available from the Fosroc website.

**Description**

Nitoprime Zincrich, a zinc primer, is supplied as a single component grey-coloured liquid based on metallic zinc and epoxy resins.

**Design Criteria**

One or two coats of Nitoprime Zincrich are generally required, dependent largely on nature and profile of the steel substrate. Nitoprime Zincrich is recoatable generally between 30 minutes and 1 hour after the initial application. Application of concrete repair materials may also proceed at this time. At elevated temperatures, the recoatable and overlay times will be reduced. The minimum application temperature for Nitoprime Zincrich is 5°C.

**Properties**

Recommended thickness per coat:	50 microns (dry)
Application thickness per coat:	120 microns (wet)
<b>Drying times – Touch dry:</b>	
@ 20°C	45 minutes
@ 35°C	15 minutes
<b>Fully dry/recoatable:</b>	
@ 20°C	50 minutes - 1 hour
@ 35°C	20 - 45 minutes
VOC content:	518g / litre

Note: At temperatures below 20°C, drying times will be slower. Conversely, at temperatures above 35°C, drying times will be faster.

**Application Instructions**

**Preparation**

Expose fully any corroded steel in the repair area and remove all loose scale and flaky corrosion deposits. Grit blasting or high pressure water blasting is recommended for this process.

Where corrosion has occurred due to presence of chlorides, the steel should be high-pressure washed with clean water immediately after grit-blasting to remove corrosion products from pits and imperfections within its surface.

**Application**

The application of Nitoprime Zincrich must take place as soon as possible to a dry steel surface after completion of the preparation work but always within 3 hours.

Although a single component product, it should be stirred thoroughly before use in order to redispense any settlement.

Apply one full and unbroken coat of Nitoprime Zincrich by suitable brush, making sure that the back of exposed steel reinforcing bars are properly coated. A small brush is generally more suitable for this purpose. Allow to dry fully before continuing. If any doubt exists about having achieved an unbroken coating, a second application should be made as soon as the first coat is fully dry (generally between 30 minutes and 1 hour).

The primed surfaces should not be left exposed to the elements for longer than necessary before overcoating or application of the repair material. Nitoprime Zincrich will, however, protect steel under clean interior exposure conditions for a period of several months. In non-aggressive exterior environments, a maximum interval of 14 days will be tolerated but in industrial and/or marine environments this interval should be reduced to the practical minimum.

The application of concrete repair materials should proceed as soon as the Nitoprime Zincrich is fully dry (generally 30 minutes to 1 hour - see under Properties).

Appendix D - Fosroc