



PTP

Port of Tanjung Pelepas
RELIABLE • EFFICIENT • ADVANCED

**Report
On
The Trial Installation
Of
Central Products, STAC System
To
Pipe and Flange of Valve
At**

Block 19A - Berth 13

Port of Tanjung Pelepas

Prepared and submitted by:



CPCOATINGS
SDN BHD

No. 6, Jalan TP 3/1,
Taman Perindustrian Sime UEP,
47600 Subang Jaya,
Selangor, Malaysia.
Tel: +603-8011 9792
Fax: +603-8011 9793
Email: cpc.intl.my@gmail.com
Website: www.beaver-entech.com



PTP

Port of Tanjung Pelepas
RELIABLE • EFFICIENT • ADVANCED

Report
On
The Trial Installation
Of
Central Products, STAC System
To
Pipe and Flange of Valve
At
Block 19A - Berth 13
Port of Tanjung Pelepas

March 2015

Prepared and submitted by:



No. 6, Jalan TP 3/1,
Taman Perindustrian Sime UEP,
47600 Subang Jaya,
Selangor, Malaysia.
Tel: +603-8023 9755
Fax: +603-8023 9455
Email: cpc.intl.my@gmail.com

Report On The Trial Installation Of Central Products, STAC System To Pipe and Flange of Valve At Block 19A – Berth 13, Port of Tanjung Pelepas

BACKGROUND:

- Client** : Port of Tanjung Pelepas
- Vendor** : CP Coatings Sdn Bhd, Distributor of Central Products
- Description** : Diameter of pipe : 200mm and Flanged Valve
Length: total of 1200mm
Located in 2000mm deep manhole at Block 19A – Berth 13
- Installation** : 27th March 2015
10.00am to 12.30pm (2.5 hours)
Based on the tide information, the low tide is at 9.00am
- Attended by** : Norman Ismail & Team PTP
Ling Liong Lai CP Coatings Sdn Bhd
Sherman Chaw CP Coatings Sdn Bhd
Bo Soon Leong STAC System Sdn Bhd
- Material Used** : STACprime,
STACfill,
STACwrap (100mm) and
STACguard (100mm)
- Manufactured By** : Central Products LLC, USA (Central Products (Tianjin) Co Ltd)

Site Pictures:



Description and Condition of Site and Installation

The installation concerns a Valve flanged connected to 200mm ductile iron pipe distributing potable water to the berths.

The valve and pipe are housed in a manhole of approximately 1500mm x 1500mm x 2000mm depth.

The manhole is often water logged especially during high tide.

The valve and flange is observed to be in good conditions with no signs of corrosion.

The flange mounted DI pipe shows sign of rust at the welded areas. The coating is flaking up and surface is dried up without protection.



Trial Installation

A trial installation of the corrosion protection materials by Central Products LLC, USA was proposed to demonstrate the effectiveness of the materials.

The installation at Block 19A, Berth 13 was identified by the client for this purpose.

The installation was about 2-3 years of age.

For comparison purpose, it was decided to carry out the wrapping of the pipe and flange of one side with the other not protected.

Trial Installation Procedure

The procedure of the installation is as follows:

- a. Inspection and preparation of site including removing the manhole covers.
- b. Remove dirt, grease, oil, excessive moisture and frost, loose rust, paint and foreign matter by hand tools from the pipe and the flange.
- c. Apply a thin, uniform film of STACprime UW over the entire surface to be wrapped with gloved hand, brush or rag.

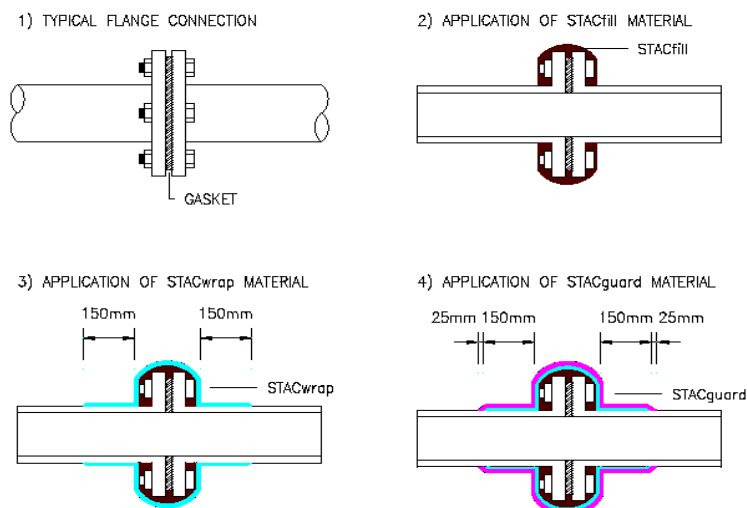
Apply a liberal coating to displace surface moisture, passivate surface oxides, fill surface imperfections and ensure adhesion between STACwrap and the substrate.

- d. Apply STACfill by filling and packing to achieve a uniform contour to which tape can be applied without bridging or voids.

Use a putty knife or gloved hand to apply STACfill in voids, cavities, etc. Contour extremely uneven surfaces and remove air pockets.

- e. Apply two layer of STACwrap over the primed and filled surfaces.
- f. Apply two layer of STACguard overlap for Mechanical protection

TYPICAL APPLICATION OF STAC SYSTEM



Installation Pictures :

Photo 01 : View of site area



Photo 02 : Preparation



Photo 03 : View of the pipe and flange



Photo 04 : Cleaning with hand tools



Photo 05 : View of pipe and flange after clean



Photo 06 : Apply STACprime



Photo 07 : View after apply STACprime



Photo 08 : Apply STACfill on flange area



Photo 09 : View after apply STACfill



Photo 10 : View after apply STACfill



Photo 11 : View of apply STACwrap



Photo 12 : View of apply STACwrap

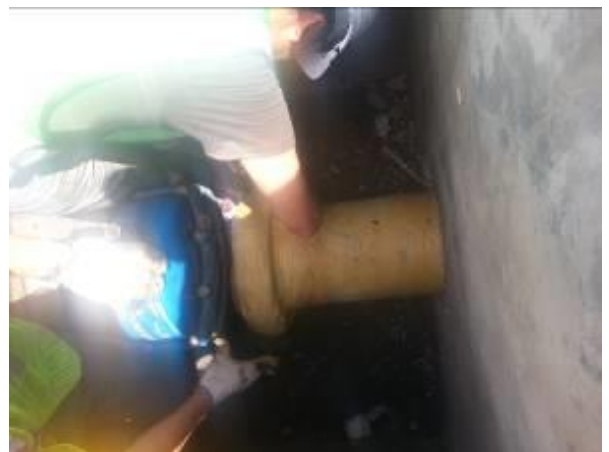


Photo 13 : View after apply STACwrap



Photo 14 : View after apply STACguard



Notes:

The STAC system was used on one side of the flange only to compare the difference between protected and none protected area.

STACguard was also installed on part of the wrapped area for comparison purposes.

It is recommended that the installation be inspected after 3 months to monitor the effectiveness of the materials.

Attachment.

The technical information on the following is attached

1. STACprime
2. STACfill
3. STACwrap
4. STACguard

Prepared and Submitted by

CP Coatings Sdn Bhd

March 2015