



**PTP**

**Port of Tanjung Pelepas**  
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**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](mailto:cpc.intl.my@gmail.com)  
Website: [www.beaver-entech.com](http://www.beaver-entech.com)



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**March 2015**

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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](mailto: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** : 27<sup>th</sup> 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.

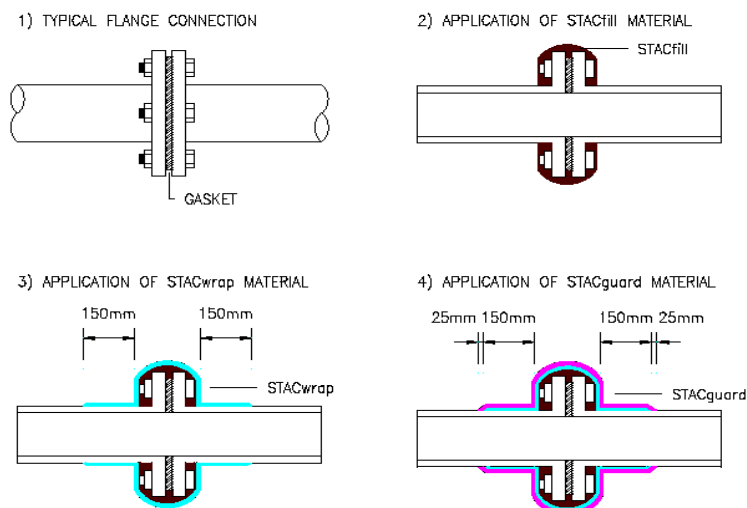
Apply a liberal coating to displace surface moisture, passivate surface oxides, fill surface imperfections and ensure adhesion between STACwrap and the substrate.

- 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

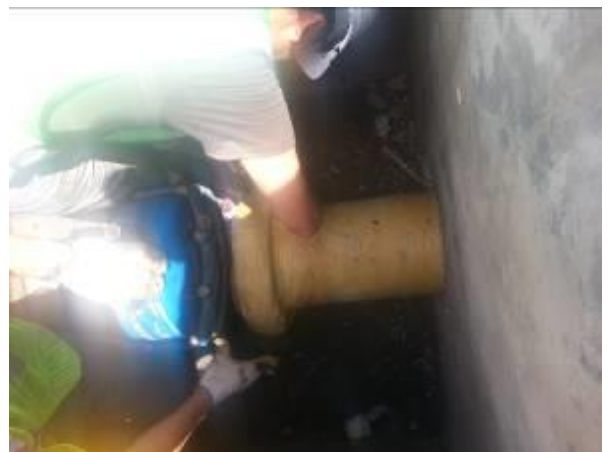


Photo 13 : View after apply STACwrap



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