

Temp-Coat 101 Liquid Ceramic Insulation Coating

Temp-Coat 101 is currently being applied on the Production Test manifold on platform East Kokongo.

Operating temperature of the manifold is 75 celsius (169 degrees fahrenheit). Due to the manifold operating temperature it requires the temp coat 101 application to achieve total thickness of 2500 μ m (98.4 mils) for personal protection.

The manifold consist a total of (16) - 6 inch lines with associated valves that are to be coated with temp-coat 101, each 6 inch line has a total of 216 nuts & bolts associated with the valves that requires stripe coating and subsequent coats to achieve the proper thickness along with the length of the 6 inch line. Each line is 11 square meters and is taking 10 gallons of temp-coat 101 to complete each one.

Temp-coat 101 application is applied as noted from the manufactures data recommendation of 381 microns (15 mils) per every 20 degrees fahrenheit.

The next few slides show the step by step process including some pictures of the on going work presently of the production test manifold on East Kokongo.

Temp-coat 101 Application Process

Below are the steps taken for each 6 inch line after the line has been dry abrasive blasted and primed, each coat of temp-coat 101 requires to be dry to touch before subsequent coats can be applied until reaching the total dry film thickness.

Note: If the product is applied thicker than 20 mils the product will blister or crack so its extremely important to follow the manufactures recommendation in order to achieve maximum performance .

Step 1 - stripe coat all welds , nuts & bolts

Step 2 - Apply a mist coat at 2-3 mils (50-75 microns)

Step 3 - Apply 5-7 mils (127-177 microns)

Step 4 - Apply 20mils (508 microns)

Step 5 - Apply 20mils (508 microns)

Step 6 - Apply 20mils (508 microns)

Step 7 - Apply 20mils (508 microns)

Step 8 - touch up imperfection areas

Pipe temperature before Tempcoat application = 75 deg C (169 degrees fahrenheit)

Pipe temperature after Tempcoat application = 42 deg C (107 degrees fahrenheit)

Temperature reduction percentage = 56%

Picture shows where the insulation was removed from the production test manifold.



After insulation was removed the manifold is being high pressure water washed and also containing the area with monarflex.



Picture shows where all items are wrapped and protected before the blasting commences to prevent equipment damages.



All surface corrosion was removed by dry abrasive blasting



Stripe coating nuts, bolts and hard to reach areas including a full coat of Interplus 256.



Fresh water washing the manifold after the primer coat application of Interplus 256 to remove any contaminants.



Stripe coating all nuts & bolts, welds and hard to reach areas with Temp-coat 101



Application of Temp-coat 101 in process

