POLYFORM™ REPAIR SYSTEM

USER GUIDE

Step 1: Preparation

As with the majority of adhesives, it's crucial to ensure that the surfaces you intend to bond are properly cleaned and completely dry before commencing the repair process. In the gas industry, Polyform is approved for use without the need for grit blasting, especially in low-pressure repair situations.

If you have access to the necessary equipment, shot blasting is the preferred method. However, if this option is unavailable, you can use manual tools such as a studded belt, wire brush, or scrapers, accompanied by an ample supply of blue roll

Step 2: PPE

Take the gloves out of their packaging and from the Polyprime pre-coat kits. Don the sturdy gloves, and it's advisable to secure the glove cuffs to your sleeves with tape to prevent them from sliding down. Layer the lightweight gloves over the heavy-duty ones, allowing you to perform the task without needing to switch gloves. This approach also assists in maintaining cleanliness during the repair process. Remember to wear these gloves along with other essential PPE items such as steel-toe boots, safety glasses, overalls, and any other required equipment on the site.

Step 3: Applying the precoat (Polyprime)

To initiate the process, make certain that you've adequately cleaned a sufficiently large area for the application. Once you are confident that the pipe's surface is clean and dry, including the underside, the subsequent step is to administer the Polyprime pre-coat solution.

It's essential to apply the Polyprime pre-coat sparingly, as an excessive amount can result in a weakened layer between the Polyform and the surface you intend to bond, potentially permitting gas flow. After a brief waiting period, typically just a few minutes, the Polyprime pre-coat should become tacky to the touch, signifying that you are prepared to apply the Polyform.

Step 4: Mixing Polyform

Begin by stirring the base in the bucket to agitate the ingredients as they may have settled in storage.

Pour in the activator and vigorously mix for 30-45 seconds, ensuring you thoroughly mix the sides and bottom as well.

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Step 5: Applying Polyform

Using the spatula provided in the kit, manipulate the Polyform around the pipe joint ensuring adequate coverage of the underside. Do not attempt to layer the product gradually as this will weaken the repair and interfere with the curing process.for cleaning. Additionally, the kit includes a one-meter strip of abrasive tape and a Polyprime pre-coat for cleaning the pipe.

Step 6 : Wrapping the repair

The following step should be executed with expediency. Just take off the lightweight gloves and initiate the wrapping procedure: gently wrap around the repair, making sure to extend the coverage well beyond the region where the Polyform has been applied.

To guarantee the integrity and performance of the repair, only the MW Polymers Wrapping Kit used in conjunction with MW Polymers Polyform must be used. Any deviation from this specified combination will invalidate the repair guarantee and most likely result in the repair to fail

Step 7: Finishing the wrapping

Once you are happy the Polyform has been encased, gradually pull the film tighter until it changes from opaque to white this indicates the correct tension has been achieved.

'Stringing' film on the ends of the repair prevents the resin from being squeezed out of the middle. Continue to wrap until you are satisfied that there is sufficient coverage to contain the Polyform and maintain external pressure.

Step 8: Secure the wrapping

Secure the end of the film with adhesive tape to complete the repair.

Ensure the repair does not sit in water immediately after being completed. Also take care not to damage or pierce the film as this will release the internal pressure that is being applied to the Polyform via the wrapping film.

After 2 hours, a tough hard polymer is formed around the pipe; The repair shall then be tested for leakage with approved leak detection fluid and backfilled using sharp sand first