



Dual Layered Hardbands and Smooth Hardbands

Oil & gas service companies and material suppliers must remain agile to properly support the needs of operating companies. Recently there has been discussions regarding two hardbanding practices that wouldn't typically be considered standard procedures, but could be applicable in certain situations.

Dual Layered Hardbands:

Dual layered hardbands will occasionally be requested in order to lengthen the time between hardbanding applications. Below is a picture of a work string tubing connection which has been hardbanded with two layers. It's easy to see how much the hardbanding stands up from the surface of the connection.



Obviously, this type of application must be planned in advance in order to avoid clearance and tolerance issues. Also, a dual layered application of hardbanding might be necessary if there is a desire to machine the surface of the hardbands in order to increase the smoothness. Machining the hardband surface to increase the smoothness would require increased initial application height so that the final surface is not below the minimum requirement.

Smooth (slicked) Hardbands:

Frequently, the subject of smooth (slicked) hardbands comes about in a conversation. A full discussion regarding smooth hardbands could not be addressed in a brief bulletin such as this, but they can certainly be an option in order to reduce casing wear, reduce friction, along with providing more friendly interaction with rubber goods in managed pressure drilling and elastomer elements.



Dual layered hardbanding machined to a smooth finish with beveled edges, as shown in the above picture, can provide certain benefits during drilling and/or completions operations.

Please contact a Postle Employee or Technical Center for further discussions of Duraband® NC and Tuffband®NC with regard to their use in dual layered or smooth applications.

Interesting FACT

Dual Layering of Hardbanding Brings to Mind the Discussion of Dilution of the Weld Deposit

From Postle Industries' Hardbanding Recommended Practices (HRP) Manual:

2.8.1: It must be kept in mind that whenever the re-application of one product over an entirely different product, i.e. a Postle hardbanding over a non-Postle hardbanding, that the resultant deposit will be a thoroughly mixed alloy, and that performance in the field will not be the same as a Postle hardbanding product re-applied over itself.

So, when dual layering the same hardbanding material, it is insured that the resultant weld will be a purer deposit of the alloy.

Duraband®NC and Tuffband®NC can be applied repeatedly without removal and certainly can be double layered.



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