



Ref: - IWL/BIS/SPEC/June-22/5E

To
M/s. Bureau of Indian Standards (BIS)
9, Bahadur Shah Zafar Marg,
New Delhi – 110002

Date: - 14th June'2022

Subject: - **Inclusion of Prefabricated tapes based on Bitumen for wrapping, coating of buried MS pipelines in IS:10221: 2008 standard.**

Dear Sir,

Greetings from IWL India Limited.

We, IWL India Ltd incorporated in 1988, are pioneers in the field of Construction Chemicals manufacturing wide ranges of waterproofing polymers, prefabricated membranes, Preformed Anti-Corrosive Tapes and Primers for buried pipelines in India. Our Bituminous based anti-corrosive tapes have been extensively used in all major pipeline projects and approved by all major consultants all over India.

We wish to draw your kind attention to the following points:

- Preformed tapes based on bitumen for wrapping and coating (Used worldwide including our Country) that have not been included in IS: 10221:2008 standard however the same was available in the Annexure B of the IS: 10221:1982 version.
- Asphalt, widely known as Bitumen in India has been removed from the above mentioned code of IS:10221:2008.

Bitumen is used throughout the country and is approved by various govt and private bodies for waterproofing of structures including wrapping and coating of buried MS Pipelines. Bitumen is a greener material than Coal Tar (Which is the main focus of IS:10221:2008 standard) in terms of manufacturing process and the impact to both environment and Humans. Bitumen Tapes are a proven system for protection of structures against water ingress on surfaces such as MS and Concrete as bitumen forms a barrier to prevent water ingress into the surface along with providing excellent anti-corrosive properties. Bituminous based membranes are widely used all over the country and they are accepted and approved in all Government Bodies across our country.

The most commonly used preformed membrane tapes widely accepted and used worldwide are bituminous based on account of the below mentioned advantages: -

- Excellent waterproofing capacity and has complete resistance to corrosion.
- Inexpensive, environmentally friendly, non-hazardous and safe.
- Flawless adhesion to different surfaces.
- Highly resistant to water and acids.
- The application time is quick and easy.
- Excellent elasticity, tensile strength, elongation properties with a very good dimensional stability.

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- Provide 100% protection against water seepage into the pipelines, thus enhancing the life and performance of the pipeline.
- The most important advantage of bituminous based tapes is the elasticity. There are a lot of times when the pipelines move due to compaction of mud around them or thermal expansion/contraction. This problem can easily be remedied by using the elastic bitumen-based tapes.
- Bitumen based tapes are a one stop solution towards protection against corrosion and excellent application towards long term and hassle-free performance with low maintenance cost.
- Bitumen based tapes are non-carcinogenic whereas other tapes like coal tar are not.
- Ease of availability

Bituminous based membranes like APP, SBS membrane are extensively used and approved by all Govt bodies across the country such as CPWD, PWD's, NBCC, MES, etc. Our bituminous membranes and tapes are supplied to several important, marque projects across the country with several accreditations from several Govt. Prestigious Organizations like MES, BHEL, NTPC, CPWD, NBCC, PWDs, Various water boards etc.

We have enclosed major credentials from Government Depts and Consultants where bitumen-based membranes and tapes are already used and proven. The relevant product Technical Data sheets, Application Methodology on the above mentioned systems are also enclosed herewith for your kind reference.

With respect to the above submissions, we sincerely request the Bureau to consider and approve for the following in the IS:10221:2008 standard:

- Reinstating of Preformed Bitumen Based Tapes for Underground Wrapping and Coating works of buried Mild Steel Pipelines and other structures.
- Reintroducing Asphalt (Bitumen) based tapes as they are very much used in the industry and are by no means forgotten or irrelevant with respect to the line written on Page 5 of the standard quoting: "Asphalt Materials have been withdrawn as they are not being used at present".

Thanking You,

Yours sincerely,

Sumit Kumar Pal

Head - Specification

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