

Pipe Wrapping Tape

DESCRIPTION

TIKIDAN PIPE WRAP is anti-corrosive impermeable non-metallic machine compacted 5 layer engineered advanced polymeric composite tape. The central core consisting of armour of fibreglass mat, which imparts the tape toughness, dimensional stability and mechanical strength thereby providing extra protection to pipe wrap against soil stresses and impact damage during handling and installation.

USES

TIKIDAN PIPE WRAP is used for protection of underground and non-exposed metallic and R.C.C pipelines from detrimental effects of corrosion and such areas Include:

- Water supply pipelines
- Fire hydrant supply pipelines
- Coal log supply pipelines
- Chemical supply pipelines
- Sewage pipelines
- Waste water disposal pipelines
- Coarse particles (ores and minerals) conveying pipelines
- Mineral waste transport and disposal pipelines
- Electric supply cables carrying pipelines
- Telecommunication cables carrying pipelines

ADVANTAGES

- Outstanding Pipe Protection
- Excellent Conformability to Pipe Sections
- Excellent Adhesion to Self, Primed Metal and R.C.C pipe surface
- Quick Turnaround
- Consistent Quality
- Uniform and Durable Performance
- Trouble Free Application with High Speed Wrapping Machine
- Stands Up to Stress

- Withstands Repeated Handling at the Plant and at Site
- Performs in Wide Temperature Range
- Resistance to Cathodic Disbonding
- Excellent Resistance to Chemicals

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

The external surface of pipe shall be thoroughly cleaned to remove rust, dirt, dust, moisture, grease, oil, mill scale, welding splatter, slivers, scabs, foreign substances etc., using appropriate tools & methods. Presence of moisture on pipe, if any shall be removed by warming the pipe surface using gas torch.

SURFACE PRIMING

On prepared surface, apply a coat of quick drying anti-corrosive synthetic primer TIKI PRIME (SY) compatible with TIKIDAN PIPE WRAP@ 8m² to 10 m² per litre (approx.) uniformly covering and wetting the pipe surface to promote adhesion of TIKIDAN PIPE WRAP.

APPLICATION

As soon as the prime coat is dry, TIKIDAN PIPE WRAP is installed using Torch-On Method. Depending upon the diameter of pipe, TIKIDAN PIPE WRAP is wrapped around the pipe in spiral / cigarette method and bonded completely to the primed surface by thermos fusion hot process. TIKIDAN PIPE WRAP rolls of required width is installed while maintaining proper overlaps (>12mm or 50% of width).

Leave pipes untreated 150mm to 200mm from ends on either side to facilitate welding. Maintaining the alignment of pipe wrap, its underside should be warmed using gas torch to soften the coating compound.

When underside heating of pipe wrap shows shiny coating surface, it should be roll forwarded and wrapped under sufficient tension to ensure good adhesion. The pipe wrap should be pressed firmly from above against the pipe surface to obtain superior and permanent bonding and prevent air pockets / holidays beneath the applied pipe wrap.

PROPERTIES OF PRIMER

Properties	Values
Volatile matter	75 % max
Viscosity by B4 flow cup standard viscometer @ 20°C	35 to 60 seconds
Drying time	5 to 15 minutes
Flash point, pensky martin closed cup	23°C min.

PROPERTIES OF TAPE

Properties	Values
Width deviation	1.5 mm Max.
Thickness	1.25 mm Min.
Thickness deviation, max.	5 µm
Softening point of the component	65°C to 121°C
Penetration (25°C, 100gm, 5sec.)	3 dmm to 20 dmm
Filler	20% to 30%

TIKIDAN PIPE WRAP complies to IS: 10221:1982, Appendix "B".

SUPPLY

The pipe wrap is supplied in roll size of 1m x 10m in varying widths and 2mm, 3mm and 4mm thickness.

PROTECTION

In order to prevent damage from U.V. light, the pipes coated with TIKIDAN PIPE WRAP should not be left open exposed to Sun light for more than 5 days. In the event of exposure for more than 5 days, it should be protected by temporary coverings, such as craft paper, white wash etc. This prevents excessive heating of the pipe wrap surface arising out of absorption of solar radiation and its U.V. degradation.

SAFETY PRECAUTIONS

As with all sheet products, care should be taken during use and storage of **TIKIDAN PIPE WRAP**.

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