

SELF-DAN PLUS PROWRAP



Cold Applied Flexible Self-Adhesive Wrapping Tape

DESCRIPTION

SELF-DAN PLUS PROWRAP is a cold applied flexible self-adhesive Wrapping Tape designed to provide protection to below ground pipelines, insulated piping and equipment against corrosion and electrolysis, vapor ingress and moisture build-up and condensation.

Composed of a self-adhesive protective coating with high strength flexible film backing, the tape is suitable for coating small to large diameter bare pipes / insulated pipes, bends, tees, equipment etc. It has a lower surface finish of releasable polyethylene film.

SELF-DAN PLUS PROWRAP Conforms to AWWA C209.

ADVANTAGES

- Controlled thickness in factory ensuring constant non-variable site application
- Easy and fast Application
- Application at room temperature
- Excellent adhesion to self and various substrates
- Excellent conformability to pipes and pipe sections
- Total flexibility of the material, and perfect accommodation to the support
- Excellent mechanical properties in both directions
- Provides maximum resistance to water or vapor transmission
- Provides self-sealing properties that provides an excellent bond at the overlap
- Minimizes energy loss by keeping insulation dry and free of condensation
- Protects substrate from deterioration from exposure to below ground acids and alkalis found in normal soils
- Provides improved resistance to hydrocarbon contaminated soils
- Elastomeric properties allow for movement of the substrate

USES

Product used for the protection of underground and non-exposed insulated / non-insulated concrete and metallic pipelines, equipment and substrates from detrimental effects of corrosion and electrolysis, vapors and moisture condensation in areas such as,

- Water supply pipelines
- Fire hydrant supply pipelines
- Oil and gas 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

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

- The external surface of insulated / non-insulated 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 or hot air blower.
- It is recommended to prime the non-insulated pipe/equipment surface using a primer **TIKI PRIME S** @ 6 to 8 m²/ltr., prior to installation of tape.
- Primer should be dry before the application of the tape. Drying time depends of the temperature and humidity.
- For wrapping and protection insulated pipelines, priming is not required.

APPLICATION

- **SELF-DAN PLUS PROWRAP** Tape is wrapped around the pipe / insulated pipe in spiral / cigarette method and bonded completely by releasing the film and pressing it against the surface.
- Overlap of least 50mm should be maintain properly at the time of application.
- Leave pipes untreated 150mm to 200mm from ends on either side to facilitate welding.

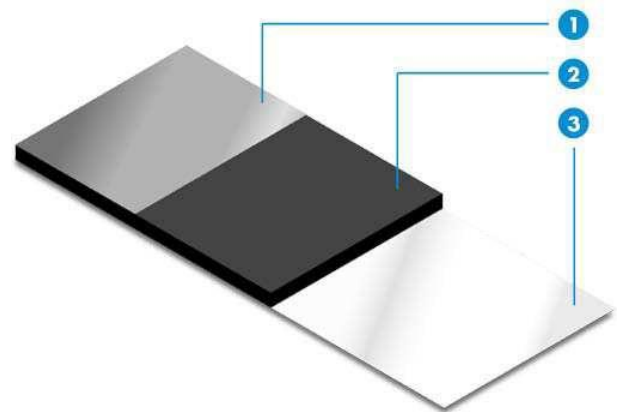
PROPERTIES

Properties	Value	Standard
Total Thickness	1.5 mm	-
Tensile strength	220 ± 80 N/5cm	UNE-EN 12311-1
Elongation at break	≥ 300 %	UNE-EN 12311-1
Resistance to static loading (B Method)	≥ 20 Kg.	UNE-EN 12730
Puncture resistance	275 ± 50 N	ASTM E154
Resistance to impact (flexible: EPS)	≥ 900 mm	UNE-EN 12691
Tear resistance	23 ± 5 N	ASTM D1004
Joint strength: shear resistance	220 ± 80	UNE-EN 12317-1
Flexibility at low temperature	< -15 °C	UNE-EN 1109
Watertightness (60 kPa)	Pass	UNE-EN 1928
Bond strength (to concrete)	≥ 0.5 N/mm ²	UNE-EN 13596
Peel strength	1600 ± 200 N/m	ASTM D903
Crack bridging ability (5 mm, 10,000 cycles)	-10 °C	UNE-EN 14224
Microbiological resistance (30 weeks)	Pass	UNE-EN 14225
Dimensional stability at elevated temperature	< 0.5 %	UNE-EN 1107-1
Humidity resistance factor	115000	UNE-EN 1931
Humidity flow density coefficient	2.56x 10 ⁻⁹ Kg (m ² .s)	UNE-EN 1931
Dielectric strength (in air, 25 °C Cl. N ^o 12.1.1)	9.6 kV/mm	ASTM D149-09
Volume resistivity (500 V dc – 60 s Cl. N ^o 12.2)	6.3 x 10 ¹⁴ Ohm.cm	ASTM D257-14

ADDITIONAL PROPERTIES

Properties	Value	Standard
Flow resistance at elevated temperature	>70 °C	UN-EN 1110
Dimensional stability at elevated temperature (longitudinal)	<0.5 %	UNE-EN 1107-1
Dimensional stability at elevated temperature (transversal)	<0.5%	UNE-EN 1107-1

PRESENTATION



- (1) High Strength Flexible Film Backing
- (2) Protective Coating
- (3) Releasable Polyethylene film

IMPORTANT RECOMMENDATIONS

- **SELF-DAN PLUS PROWRAP** tape should not be applied when temperature is below +10°C
- Must be stored in a dry place protected from rain, sun, heat and cold temperatures.
- **SELF-DAN PLUS PROWRAP** tape after application should not be left exposed to sun for extended period to prevent from U.V. rays damage.

SUPPLY

SELF-DAN PLUS PROWRAP tapes are supplied in 20 meter length and in required widths from 50 mm to 1000 mm in multiples of 50 mm.

STORAGE

This product is not-toxic and non-flammable. It must be stored dry and protected from rain, sun, heat and low temperatures. It must be stored upright.

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