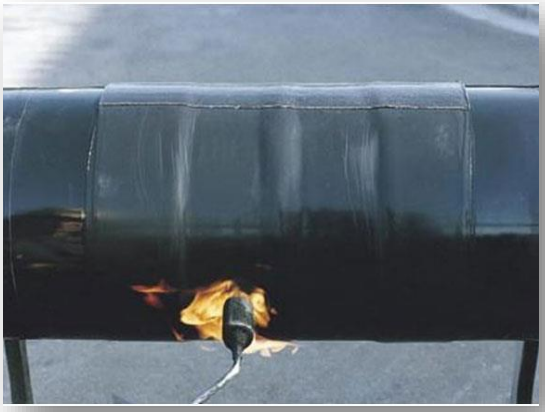
TAM Heat-Shrinkable Sleeve



Company Profile

TAM is an INDONESIAN anti-corrosion company, established since 2008. TAM Industry manufacture many products which aims to protect objects against corrosion. TAM Heat shrinkable sleeve is made to be in the highest quality product and able to be configured based on client's needs. TAM Heat shrinkable sleeve already met the specification standards set by NACE RP0303-2003: Field-Applied Heat-Shrinkable Sleeves for Pipelines: Application, Performance, and Quality Control.

Product Description

TAM Heat shrinkable sleeve is designed for corrosion protection while also fill the voids of damaged pipe. It consists of three layers; the inner layer is using liquid epoxy primer which coated on the steel pipe, the intermediate level is using a high peel strength of hot-melt adhesive, and the outer layer is using a cross-linked PE (polyethylene) which provides a strong mechanical barrier against impacts.

Features and Benefits

- ✓ Heat shrinkable sleeve provide great corrosion protection and resistance to cathodic disbondment
- ✓ Excellent durability against abrasion and chemical attack also highly resist against shear forces
- ✓ High performance adhesives to steel for long-term corrosion protection.
- ✓ Product can be applied after the pipeline has been cleaned and welded because of the open sleeve configuration.
- ✓ Can be modified to meet client's demands within a short time.

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TAM
Anti Corrosion Industry

Product Properties

Properties	Test Method	Unit	NACE RP0303 Requirements	TAM HSS
Tensile Strength at Failure	ASTM D 638	kPa	15,200	23780
Ultimate Elongation	ASTM D 638	%	>400	689
Volume Resistivity	ASTM D 257	Ohm-cm	10^{13} min.	10^{17}
Dielectric Voltage Breakdown	ASTM D 149	kV/mm	5 min.	30
Impact at 23°C (73°F)	ASTM D 14	J/mm	5.6	15
Adhesion to Steel Cutback and mainline Coating	ASTM D 1000	N/cm	80	120
Lap Shear strength At ambient temperature At operating temperature	ASTM D 1002	psi	 100 7	 652 (23°C) 36 (50°C)
Cathodic Disbondment at 23°C	ASTM G 8	mm rad	< 15	14
Water Absorption	ASTM D 570	%	0.1 max	0.05
Low Temperature Flexibility	ASTM D 2671	°C	-15°C min.	>-32°C

Application

1. Use handtools to smoothen the surface and to remove the water, oil, and other adherent substances on it (SSPC-SP2).
2. Primer: Apply Primer by heating it at 80 °C up to 100 °C, apply the brush quickly with thickness of 100 µm.
3. Remove the plastic film lining paper on HSS. Heat the adhesive surface of closure patch with fire, when adhesive surface is melting, closure patch is covered onto the mark line. Lap joint must be even and width must be equal with a pressure roller.
4. Start the heat shrinking process from middle and then equably heat the sleeve along its circumference, in order to guarantee the sleeve shrinking flatly, sleeve combing tightly on pipes so no air enters the system.

As it cures, the system forms strong mechanical and chemical bonds between the pipe surface & the adhesive layer. While the outer layer will form a strong protection against incoming moisture and mechanical damage.

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