

## FACT SHEET

Developed in collaboration with one of the most innovative paint companies in the UK, CoolMet® not only uses an innovative PVDF paint system, its application method is also novel which provides it with high strength and resistance to scratch, chipping and other mechanical abuse.

High emissivity and reflectance ensure low surface temperature.

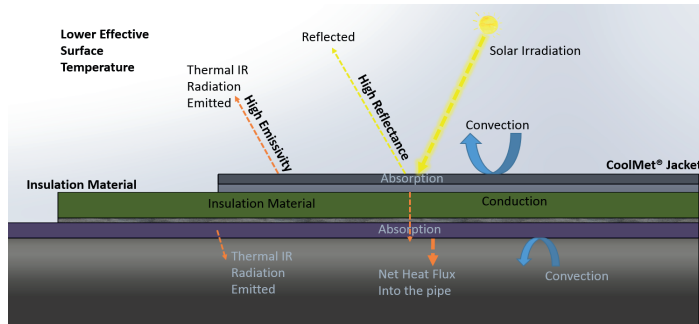
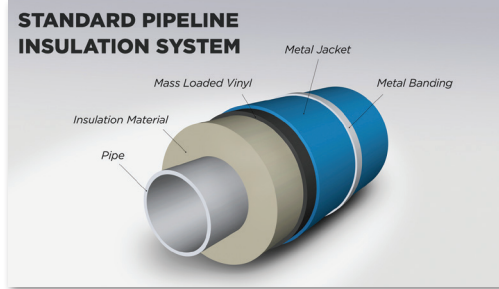


Fig: How CoolMet acts to ensure lower surface temperature

### Low surface temperature:

- ☪ Personnel protection
- ☪ Reduction of insulation thickness
- ☪ Improved pipe density

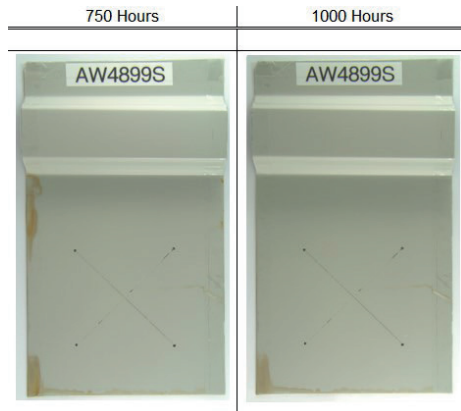


Fig: No sign of corrosion after 1000 hours

### High resistance to corrosion and chemical attack: High abrasion resistance:

- ☪ Scratch resistance
- ☪ Resistant to sand blast
- ☪ No chipping during shipping and installation

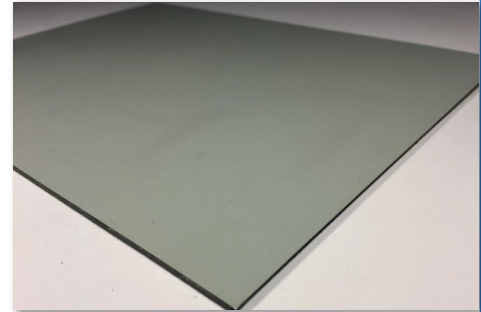


### CoolMet - High Performance Painted Jacket:




- ☪ Superior properties: scratch, chip and corrosion resistance
- ☪ High emissivity and high reflectance
- ☪ Corrosion resistance
- ☪ Cost effective

## MATERIAL DATA SHEET

CoolMet® Insulation Jacketing is a metal jacket painted on the topside. CoolMet uses an innovative PVDF (Poly Vinylidene Fluoride) paint system which focuses on improvement of 2 most important thermal properties, Emissivity and Reflectance to ensure maximum heat radiation away from the surface resulting in lower surface temperature. Along with excellent radiative properties, CoolMet also exhibits exceptional weather resistance. High abrasion and corrosion resistance along with high resistance to chemical attack, makes this the best choice as a metal jacket. Especially effective in applications such as oil and gas processing and transportation, petrochemical plants, power stations and for any jacketing applications in highly corrosive environments.



CoolMet is also available with a range of options for the underside of the jacketing:

-  Polyester paint or other paint systems based on the specification
-  DryMet moisture barrier to prevent galvanic corrosion of the jacketing
-  SoundMet acoustic insulation for effective noise insulation

Standard CoolMet is produced in grey, other colours are available on requested. Most common base metals are Stainless Steel and Aluminium, other metals are available as per project specification. Corrugated, embossed and other profiles are also available in CoolMet.

PROPERTY	SPECIFICATION	PERFORMANCE
Emissivity	ASTM E 1933 99A	0.9>
Resistance to Cracking (T - Bend)	EN 13523 - 7	1.0T on HDG Without Removal
Resistance to Solvent (MEK)	EN 13523 - 11	150 double rubs
Scratch Resistance	ISO 1518:2000	2.9 kg
Weathering, colour retention	ASTM D 2244	4 years 45 degrees subtropical exposure 45 Degrees
Weathering, chalk resistance	ASTM D 4214	4 years 45 degrees subtropical exposure 45 Degrees
Salt Spray Test	ASTM B 117	1000 hrs 0-5 creep
Humidity	ASTM D 2247	0-1 cut edge creep (1000 hrs)

### Safety:

There are no known health risks in handling CoolMet. For more details on safety, please refer to CoolMet MSDS available on our website.

