



FOAR COAL TAR ENAMEL GRADE 105/8

FOR THE CORROSION CONTROL OF STEEL PIPELINES

FOAR Coal Tar Enamel Grade 105/8 is a corrosion protection coating currently in use on in-service steel pipelines all over the world.

Coal tar enamel is tried and tested for corrosion protection with its impeccable track record throughout the world in all varieties of climates and operating conditions.

Benefits

- Excellent adhesion to metal
- Corrosion protection
- High water resistance
- High electrical resistivity
- Cathodic bonding resistivity
- Resistance to bacterial and marine organisms
- Root growth penetration resistance
- Resistance to damage due to impact of backfill
- Resistance to petroleum products
- Flexibility and temperature susceptibility
- Chemical stability

Standard Compliance

- BS 4164 (2002) – Grade 105/8
- BS 4164 (1987) – Grade 105/8
- AWWA C-203 (2002) – Type I
- IS 9912 (2008) – Type I

Quality Control

FOAR's quality control system ensures strict quality check at all stages of production and comprehensive testing of each lot as per requirement of relevant standards. The organization's quality management system is certified to conform to ISO 9001:2008.

Packaging

- i. Silicon coated easily strippable paper packaging
- ii. 250 kg drums

Storage

The packaged product to be kept in original sealed condition and stored under leak proof shed for preservation. The product should be kept away from direct sunlight.

Physical Characteristics	Limits	Testing Method BS 4164:2002	Testing Method BS 4164:1987
Color/Form	Black/Solid	–	–
Filler content by ignition, % by mass	25 – 35	Annex I	Appendix B
Density @ 25 °C, g/cm ³	1.40 – 1.60	Annex J	
Softening point (ring and ball), °C	105 – 116	BS EN 1427	Appendix D
Penetration (0.1 mm units)			
@ 25 °C, 100 g, 5 s	5 – 12	Annex K	Appendix E
@ 45 °C, 50 g, 5 s	8 – 30		
Flow time @ 240 °C, seconds	9 – 16	Annex L	Appendix F
Sag @ 80 °C for 24 hours, maximum	1.5 mm	Annex B	Appendix G
Low temperature cracking and disbonding	None @ 25 °C	Annex C	Appendix H
Impact @ 25 °C, disbonded area	10,000 mm ²	Annex E	
Peel, initial and delayed, maximum			
@ 40 °C	3.0 mm	Annex F	Appendix L
@ 50 °C	3.0 mm		
@ 60 °C	3.0 mm		
Cathodic disbonding in 28 days, maximum	5 mm	Annex G	Appendix M
Maximum application temperature	250 °C	Annex M	

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