



POLYPIPE HOMA-11

Conformity to EN 10290

Polyurethane tar VOC free coating

◆ Description:

A two-component, 100% solid, based on aromatic polyurethane resin modified with coal tar. Chemical resistance is very high because of coal tar, high qualified with excellent corrosion resistance, very good adhesion, suitable flexibility and unique mechanical properties.

◆ Advantages:

- 100% solid, without VOC
- Resistant against diluted alkalis, petroleum products, salts and water
- Excellent corrosion protection
- Very low permeability
- Very good chemical resistance
- Fast reactivity and low cure time
- Applicable in wide temperatures
- Fast back to service
- Excellent adhesion and toughness on metal substrates
- Excellent durability at industrial and marine environments
- Resistant to water, impact and abrasion
- Good weather resistance
- High build, can be applied to high thickness in one layer
- No need to primer

◆ Main uses :

- Coating based on thermoset plastic for buried pipelines
- External pipeline coating for buried, immersed in brackish water
- External coatings for elbow, valves, joints, fittings ..., buried or immersed in sea or fresh water or exposed conditions
- Piles and structure coating of steel piers
- Coating of Cast iron pipes
- Lining of tanks designed to contain industrial or brackish water , crude oil
- External / internal coat for sea water inlets
- Coating of equipment in power plants, petrochemical units, refineries
- Anti-corrosion coating to protect exterior of valves

◆ Physical properties:

Color	black
Glossy	Gloss
Solids by volume	100%
VOC	0 g/L
Theoretical coverage 1000μ	1 m ² /L
Number of coats	1
Density (A)	1.82±0.1 g/cm ³
Density (B)	1.24±0.05 g/cm ³
Density (A+B)	1.675±0.1 g/cm ³



Mix ratio (by weight)	A/B = 4.54 / 1
Mix ratio (by volume)	A/B = 3 / 1
Coal tar content	11 %
Curing method	Chemical reaction
Adhesion (after 7 days pull-off)	1500 psi
Adhesion (after 48 hours immersed)	Good
Elongation (ASTM D-412)	10.3%
Hardness(shore D) (ASTM-D 2240)	71
Impact resistance	75 in-lb
Cathodic disbondment (ASTM G8)	8.5 mm
Abrasion resistance (ASTMD-4060) 1000 cycles/ 1 kg	Decrease<85 mg
Packaging	200, 250 kg Drums

➤ **Processing properties**
@ 25°C /54% RH :

Gel time	100 sec
Tack free	15 minutes
Post cure	4 hours

➤ **Application guide direction:**

- Surface preparation :
Surface preparation should include sand blast, grate blast, shot blast... cleaning up to Sa2.5 grade and to a minimum of 50-70 microns anchor profile. Then remove dusts by blowing compressed dry and clean air. During blasting operation and coating application, the substrate

temperature should be 3°C more than dew point.

High relative humidity may affect adhesion negatively. So maximum allowed relative humidity would be 85%. In some cases pre heating of pipes may be needed. The substrate must be coated max in 4 hours after sand blasting, if not, the surface preparation process must be done again.

- Mixing:

POLYPIPE HOMA-11 must not be diluted at all. Use polyurethane thinner T-900 for purge line and flushing of equipment.

Part A is thoroughly mixed with suitable mixer until a homogeneous mixture and color is obtained.

- Applications:

This material must be applied utilizing high-pressure, heated plural component spray proportioning equipment. Leave the cut backs (about 75 mm) uncoated. In other cases, such as couplings all the surface will be coated.

- Limitation :

Do not open the packages till application time. Should be stored in a sealed container after opening. Minimum immersing or burying time is 4-6 hours after application.

- Storage :

12 months in factory delivered, unopened drums. Keep away from extreme heat, freezing, and moisture. The use of drum heaters is encouraged to reduce material viscosity at low temperatures.



- Warning :

This product may cause allergic problems when contacts with skin or inhaled. Special clothes, masks and gloves should be utilized during spraying process. Protective creams and glosses should be used in order to protect skin and eyes from contact with material and spray dust, respectively.