PSI Pipecast

Product Datasheet

Description

Pipecast is the latest development in the field of composite plastics for the protection of pipes against specific mechanical loadings (e.g. for horizontal drillings, etc.). Pipecast is a resin-saturated glass fibre mat (GRP), which is activated with water. It is packed in airtight aluminium foil bags, in ready-to-use condition. No mixing of components on site is required.
Simply immerse in water for around 15 seconds. The reaction time of the resin is about 3 minutes.
Pipecast sets hard in less than 30 minutes and is fully cured in 12 hours (at 21°C). The innovative fibreglass/resin material possesses high resistance to chemicals, can withstand both high and low temperatures and can even be applied under water.

Advantages

- Short curing time, rapid installation
- Simple and easy to apply; no mixing of components required
- Resistant to extreme temperatures
- Can be applied under water and on damp substrates
- Outstanding adherence and resistance to chemicals, particularly mineral oil products
- Can be shaped to provide mechanical protection for irregularly shaped parts

Technical data:	
Colour	black
Thickness	0.8 - 0.9 mm
Dimension	4.57 m x 97 mm
Dielectric strength	10 KV/mm
Water absorption	< 2%

Typical uses

Mechanical protection of pipes, particularly suitable for corrosion protection system for HDD in a combination with an exceptionally shear resistant Canusa WLAS shrink sleeve or cold applied tape (DIN/EN approved to category C/50).

Material consumption with steel pipes (typical use):

With rolls of 4.57 metres x 97 mm with 1 x 75% overlap (4 layers) and approx. 450 mm width application:

DN 80 (88.9 mm)	approx. 2 rolls
DN 100 (114.3 mm)	approx. 2 rolls
DN 150 (168.3 mm)	approx. 3 rolls
DN 200 (219.1 mm)	approx. 3 rolls
DN 250 (273.0 mm)	approx. 4 rolls
DN 300 (323.9 mm)	approx. 5 rolls
DN 400 (406.4 mm)	approx. 6 rolls

Rates of consumption can vary according to use and should be calculated on an individual basis.

Note:
The suitability of Pipecast for the intended purpose and the expected loading must be tested by the user on his own responsibility.
The applicable DVGW directive on the coating of pipes and outer wrapping systems on trenchless pipelines is to be followed.

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Application Instruction

Typical use: Pipecast as additional mechanical protection for heat-shrink material e.g. on a fibre-cement encased steel pipe.

1. Pipe preparation as per GW 15, clean, dry and free of grease. If shrink sleeves are used, preheat to 70°C.

2. Installing the shrink sleeve

3. After saturating with water, wind the Pipecast tape around the pipe with a minimum of 1 x 75% (4 layers) overlap.

4. Wind adhesive tape around the ends of the Pipecast tape in order to press it firmly on to the pipe.

5. Allow the Pipecast to cure for 20-30 minutes at 23°C. It is ready to be buried after in approx. 1 hour.

6. Pipecast after application.

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