

Full-composite Epoxy Sleeve Designed for Strengthening and Protection of Offshore Risers & Conductors

Technologically Advanced & Innovative | Diver-less & Online Installation

Cost Effective | Verified as per ASME PCC-2

Helicoid 50

The Helicoid 50 Epoxy Sleeve® system provides a robust solution for proactive corrosion protection and minor structural enhancement of pipelines. The Helicoid 50 is ideally suited for pipelines experiencing or susceptible to external corrosion, offering a preventative measure and minor reinforcement for areas with up to **50% wall loss**. This system utilizes a helically-wound strip of carbon-fibre reinforced, mechanically-interlocking Polyethylene (PE) to create a protective annulus of 25mm – 40mm around the pipe. This annulus is then filled with a specially formulated epoxy or cementitious grout, forming a durable barrier against corrosive elements and providing a degree of supplementary strength. Its in-situ application minimizes disruption, providing an efficient and reliable method to extend pipeline lifespan and maintain operational integrity.

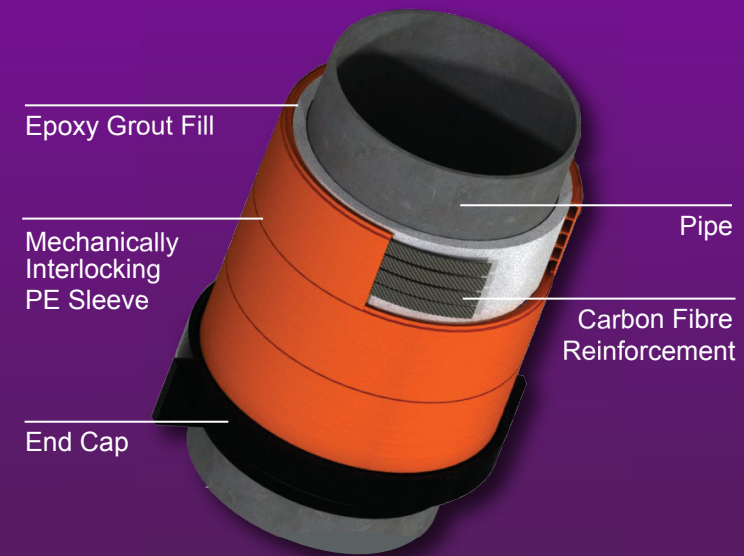


Benefits of the Helicoid 50 Epoxy Sleeve®

- A cost-effective alternative to the Helicoid 100 system for less critical corrosion issues
- Protects and strengthens offshore risers, conductors and caissons
- Facilitates diver-less installation up to 5.00m below MSL
- Enables quick and easy application
- Accommodates 6" to 40" pipelines
- Lengths of up to 10.00m
- Provides long-term solution
- Enhanced safety
- Tested in accordance with ASME PCC-2 and independently verified by Lloyd's Register

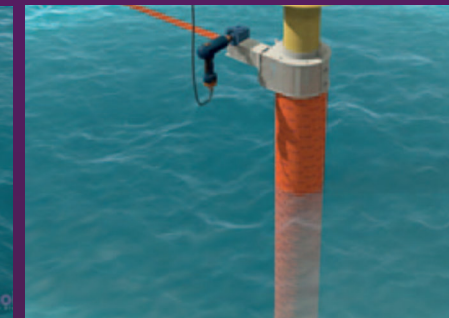


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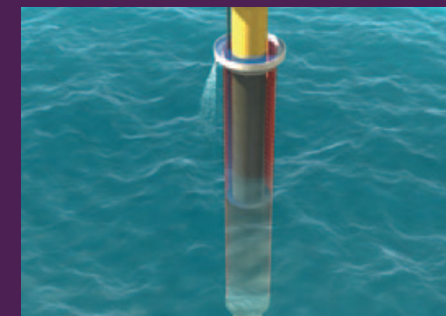
A. Surface Preparation

Installation of the Helicoid Surface Preparation System



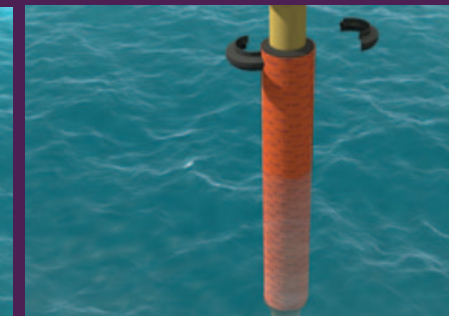
B. Winding of the sleeve

Installation of the winding cage and the sleeve is then wound to its full, required length



C. Grouting process

Application of Epoxy or Cementitious grout, through the tremie method and the top End cap is placed



D. Top End-Cap Installation

Installation of top end-cap after epoxy grout curing



Repairable Candidates

