



# FLUOROCARBON CASE STUDY

## FLUOROGLIDE® FL340 BEARING SLEEPER PADS

Find out how Fluorocarbon can help your company improve efficiency and save money at:

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### THE CHALLENGE

We were contacted by a company requesting support for an offshore project in Australia. They were looking into the possibility of procuring Fluorinoid® FL340 Flowline End Terminals but needed to ensure that the solution provided had the appropriate coefficient of friction and sustainability for use with MLPP and 3LPP coating systems.

Friction wear on pipe lines insulated coating, high-voltage power cables, and high-temperature pipe lines situated on the sea bed can cause damage where they have to cross over existing pipes and power cables.

We manufacture specific bearings for subsea use. Fluorocarbon bearings are used on projects incorporating PLETS (Pipeline End Terminals) where movement may occur between the pipeline/riser assembly and mud mat.

Utilising our range of Fluorinoid® load-bearing low friction materials for over 30 years, we have gained a global reputation for providing Slide Bearings, Pipe Supports and Skidway Solutions to the Construction and Oil & Gas Industries.

### THE SOLUTION

Our Technical and Sales teams worked closely with the customer on this project, supplying technical justifications and information to secure the scope suitable for our Fluorinoid® FL340 material.

The Fluorinoid® FL340 bearing sleeper pads needed to be in contact with a 6" and a 14' 6" steel wall MLPP layer pipe with a life expectancy of 30 years.



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### THE OUTCOME

The specific design we created included a custom-made low-profile fixing arrangement allowing for high lateral loads whilst still securing the bearings. This enabled the customer to maintain the desired bearing dimensions.

Fluorinoid® FL340 was chosen for this application due to its remarkably high abrasion resistance, inertness to marine growth and low coefficient of friction.

The abrasion resistance has been qualified in a purpose-built environment (including sand) simulated equipment.

We used values from previous in-house testing data to prove the friction characteristics and wear properties under the conditions specified by the customer.