PUR Solutions for the Offshore Industry.

PUR – perfect pipeline protection.
Perfect pipeline protection...

Having to work under pressure round the clock requires characteristics beyond the norm. This is why BASF offers a wide range of intelligent polyurethane solutions for offshore applications which work smoothly and reliably at all times even under the most extreme conditions.
...with intelligent detailed solutions.

Elastoshore® for perfectly stable pipeline connections.

Elastoshore® field joints ensure the stable connection of pipeline welds. They offer excellent thermal insulation values, are corrosion-proof, have a long life – even under extreme conditions such as the deep sea – and are particularly cost-efficient.

Elastoshore GSPU® for absolutely safe insulation of deep and ultra-deep pipelines. Elastoshore GSPU® is a new generation of glass syntactic polyurethane for pipeline insulation – heavy metal-free; a high-performance material, highly reliable even under extreme stress and low temperatures.

Elastopor® H for safe pipe insulation – even under the most extreme circumstances. Elastopor® H, a closed-cell rigid polyurethane foam with excellent insulating properties used for a wide range of hot and cold insulation applications. In depths of up to 200 metres, Elastopor® H sets the standard in insulating properties, temperature stability and solidity of the polyurethane foam.

Elastopor® H opencell for the protection from mechanical destruction, e.g. by dragging anchors and trawl nets. Additionally, the open-cell polyurethane foam becomes fully saturated with seawater, in order to prevent the floating of the pipeline.

Elasturan®, Up to five tons of heavy elastomer casting can be used to create “bend stiffeners”. These stiffeners take the pressure of the enormous tensile and bending forces that affect the pipeline to protect it against destruction. Strakes made from Elasturan® ensure that the pipeline does not oscillate. Easy to handle and available in a wide hardness range.
**Strake**

Helix-shaped elastomer-moulded part that vertically drains off high horizontal water flow velocities and ensures that the pipeline does not oscillate.

**Pig**

Pig systems and components examine, clean and maintain the pipeline without interrupting the process flow.

**Doghouse**

Protective cover to guarantee the physical and thermal stability and functionality of the pipe and production system.

**Flowline Protection/Cable protector**

Cast elastomers to protect the pipeline. Compared to other methods such as rock dumping or concrete reinforcement it is a highly efficient technique.
Even better
under pressure.

Down here only one thing counts: You give way, you lose. That’s why there is an appropriate PUR solution for every system. A solution that stops failures, mishaps and breakdowns, and is unbeatable under pressure.
### Bend Stiffener

Able to take the tensile and bending forces that act on the pipeline and protect it through delimitation of the bending radii, restricting both movement and stress.

### Bend Restrictor

A chain made from PUR elastomer elements, arranged like a spinal column. It protects the pipeline against overloading (by the dead weight in the area of critical bending radii) by facilitating the crude oil from the seabed to the surface.

### Field Joint

Stabilisation and protection of the pipeline in the area of the welding seam with an open cell rigid foam or a solid elastomer.

### Piggy Back

A system that fixes cables and supplies lines to the riser.
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