Subsea, Umbilical, Riser & Flowline Protection Solutions (SURF)

Protecting subsea flowlines, umbilicals, power and communications cables is of great importance for power generators, oil and gas companies and offshore contractors. In response to these challenges, BMP has developed a new generation of bespoke technical Polyurethane products specifically targeted at the offshore Oil & Gas and Renewable Energy Sectors.

BMP’s Proteus range of subsea cable protection products combines critical elements such as high impact and abrasion resistance, together with unique material properties, specifically designed to withstand the harshness of offshore subsea environments.

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BMP’s ProShell® Urethane Ducting System is designed as a series of interlocking tubular half shells moulded in a highly impact resistant marine grade Polyurethane system. Flexible tooling design allows BMP’s ProShell® Urethane Ducting System to accommodate a wide variety of cable diameters, from 15mm fibre optic cables through to bundled umbilicals up to 350mm diameter. For ease of handling and logistics, ProShell® is typically manufactured in lengths from 500, 1,500 and 2,000mm.

ProShell® Urethane Ducting System is easily assembled on deck with each modular section interlocking and held in position by pre-cut subsea banding such as Inconel 625 and Titanium.

BMP provides a full turnkey supply offering from design, material selection, Finite Element Analysis moulding, validation/testing through to the supply of banding and associated installation equipment.

Ballast Protection – ProShell HD®

For projects which demand cable, umbilical or riser protection with added ballast, ProShellHD® (High Density) provides much more than straightforward abrasion and impact protection. Heavy filler materials are added to the ProShell® urethane system together with lead inserts significantly increasing density and overall weight.

The resulting additional ballast delivers improved on-bottom stability, while the added mass improves dynamic response. Ideal for use in areas where high currents are anticipated.