



ALLTER

ALTERNATE
CORROSION
PREVENTION
SYSTEMS



Alter-Mesh™ PE 11

PRODUCT DATA SHEET

Selection and Specification Data

Generic Type	Extruded carbon black polyethylene air-cushioned mesh
Product Description	Allter-Mesh™ PE 11 is a 11mm. thick extruded air-cushioned diamond shaped PE mesh for protecting coated pipelines from rock backfill when a thick sand collar is no option. Allter-Mesh™ PE 11 is also offering protection to coated pipelines from other abrasive sources caused by soil settlement and other geological movements. The material is absorbing high impact forces because of its air-cushioned properties and is, depending on the pipe diameter, longitudinally, spirally or circumferentially wrapped around the pipeline and secured by polymeric strapping. Examples of applications are protection pipelines against high impact risks, such as buried pipelines, Offshore pipelines cutbacks and infills during pipe lay process, subsea rock installation, fishing-and other vessel activities etc.
Features	<ul style="list-style-type: none">• Ready to use material/fast and simple application• Air-cushioned energy absorbing material• Lower weight material (1.7 kg/m²) than alternative products• Open mesh structure/no inhibiting effect on cathodic protection• Chemically inert and root-proof• Low temperature flexibility for ease of application• Aperture size: 4x4mm.• Service temperature from -30 up to 100°C (-22 up to 212°F)• Very high impact resistance (ASTM G14: 70J)/• Impact resistance (ASTM G13 mod.: no failure at 6" rock)• Very high tear strength MD (ASTM D624: >65N) plus TD (ASTM 642: >70N)• Elongation MD (ASTM D4595: >140%) plus TD (ASTM 4595: >110%)• Compressive strength (ASTM D1621: >90psi @ 50% reduction)• Melt temperature (ASTM E794: >120°C/248°F)• Available in 30m. rolls (98.5 ft.) or pre-cut sheets on request• After installation immediately ready for backfill
Color	Black
VOC	0 g/l (0.00 lbs/gal)

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Substrate and Surface Preparation

General NR

Mixing and Thinning

Mixing NR

Thinning NR

Application Equipment

General This material can be simply applied by hand or (semi) automated equipment.

Application For pipes with a circumference of max.150mm. (6") the material can be longitudinal applied. Unroll the mesh parallel to the pipe, place the mesh below the pipe, wrap the mesh around the pipe with an overlap of 150mm. (6"). Secure the mesh by polymeric strapping every 800mm. (2.6')

For pipes with a circumference larger than 560mm. (22") the roll width the material can be latitudinal applied. Cut the mesh into pieces with 100-150mm. (4-6") extra overlap. Wrap the mesh around the pipe overlapping the adjacent installed mesh by 150mm. (6"). Secure the mesh with polymeric strapping every 800mm. (2.6').

For very large circumference pipes the material can be spiral wrap applied. Start wrapping the pipe moving along the pipes, so that the mesh overlaps 150mm. (6"). Secure the mesh with polymeric strapping every 800mm. (2.6').

Cleanup and Safety Information

Cleanup NR

Safety This material does not contain any hazardous ingredients.

Packaging, Handling and Storage

Shelf life Unlimited at 23°C (73°F)

Storage temperature and humidity 5 - 50°C (41-122°F).
95%.

Storage Material should be stored indoors, clean and dry, kept away from direct sunlight.

Shipping weight			
	Dimension	Weight per Roll	Weight per Roll
	30m. x 1.83m. (2" x 33')	93,33 kg	205.75 lbs

Flash point (ISO 1523) NR

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