

SFL ROCKSHIELD 11 MM

Product Information

Product description: SFL Rockshield 11 mm is a pipeline protection mesh for protecting pipeline coatings from rock backfills. It cushions the impact of rocks or hard backfill which can cause damage to installed coating systems. It also offers protection from abrasive objects after installation of coated systems, prohibiting geologic movements from damaging pipelines. It can also be used for offshore purposes to protect against impact damage by lay barge rollers, anchors, rock placement, infill, and fishing (trawl) activities.

SFL Rockshield 11 mm is a diamond structured mesh manufactured from high density polyethylene to produce a strong cushioning structure.

Features:

- Flexible for easy handling at low temperatures
- Chemically inert, will not rot
- High impact strength and tensile strength
- Manufactured to withstand extreme weather conditions
- Available in rolls
- Open mesh structure allows flow of water

Benefits:

- Fast and easy application
- Light weight material compared to alternatives
- Cathodic protection will not negatively be influenced

Application examples

Pipe coatings: Protection of coating materials applied on buried or submerged pipes against damages from rocks or geological movements.

Offshore pipes: Protection of coating materials during pipe lay, anchors, rock placement, infill and fishing (trawl) activities.

Splash-zone & underwater installation: Protection of critical infrastructure like wooden quay walls and piles

Product properties of SFL Rockshield 11 mm

Colour	Black
Thickness	11 mm [$\frac{7}{16}$ "]
Temperature range	≤ -30 °C to $\leq +100$ °C [-22 to +212 °F]
Weight	1700 g/m ² (50 oz / yd ²)
Mesh Count	MD – 22 TD – 19
Aperture Size	Nominal 4 x 4 mm ($\frac{5}{32} \times \frac{5}{32}$ "
Impact resistance (ASTM G14)	Typical value 17 Joules (150 in.lb)
Compressive strength (ASTM D 1621)	At 50% deformation > 600 Kpa (87 psi)
Tensile Strength MD (ASTM D4595)	>14.9 KN/m (1021 lb/ft)
Elongation @ break (ASTM D4595)	MD: >70 % TD: > 77%
Tear strength MD/TD (ASTM D624)	MD:> 153 N (14.8 Lb) TD: > 130 N (16.1 Lb)
Ball bursting Strength (ASTM D3787)	≤ 700 N (157 Lb)
Melt temperature (ASTM E793)	>130 C (266 F)

Application instruction - Brief version

Detailed application instructions are available from Seal For Life Industries.

Additional materials	Installation of SFL Rockshield 11 mm requires the use of complementary SFL Strappingband. Please contact Seal For Life Industries for additional information.
Equipment, tools and auxiliaries	Installation of SFL Rockshield 11 mm requires the use of SFL Strappingtool, and SFL Strappingband roll carrier. Please contact Seal For Life Industries for additional information.
Application	SFL Rockshield 11 mm must be wrapped around the entire circumference of the pipe with sufficient circumferential overlap onto itself. Fixation of SFL Rockshield 11 mm to the pipe is accomplished by application of complementary SFL Strappingband.

General order information

Product	SFL Rockshield 11 mm is available in rolls with following dimensions (W x L): 11 mm ($\frac{7}{16}$ ") 1 m x 30.48 m (3'3" x 33 yds) Customized pre-cut sizes on request
Handling	Heavy weight rolls, handle with care.
Storage	Store away from direct sunlight in a cool place. Unlimited shelf life.

Handling and Commissioning

Exposure to loads	Objects coated with SFL Rockshield 11 mm should not be exposed to excessive loads e.g. from lifting equipment.
Immersion or burying	Immersion or burying is possible immediately after completion of the application. Backfill and compact with clean sand and filling material without sharp stones or hard lumps of soil.

Information

Documentation	Extensive information is available on our web-site. Application instructions and other documentation can be obtained by contacting our head office, from our local distributor or by sending email to info@sealforlife.com
Certified staff	Application of the described coating system should be carried out by certified personnel.