

# PRODUCT DATA SHEET

## Sika® Drain-15

PROTECTIVE AND DRAINAGE FILMS BASED ON THREE-DIMENSIONAL FILAMENTS WITH TWO GEOTEXTILES BUILT-IN



### DESCRIPTION

Protection and drainage membranes based on three-dimensional polypropylene filaments combined with two geotextiles.

### USES

- Foundation drainage
- Walls and buried elements drainage
- Slope and consolidation drainage
- Anti-pollution separator layer
- Protection of waterproofed foundations with bituminous emulsions
- Cleaning layer under floor tiles
- Tunnel lining back protection
- Protection and separation layer in garden areas

### CHARACTERISTICS / ADVANTAGES

- Easy installation
- High drainage capacity
- Good chemical resistances
- Economic protection
- Acts as drainage protection against ground mechanical loads.
- Absorbs and filters water from land, enhancing the drainage system capacity

### APPROVALS / CERTIFICATES

Sheet for drainage systems according to UNE EN 13252: 2005.  
DoP 01 07 04 99 900 0 000001 1053, certified by the Factory Production Control Body, 1213, certificate number 1213-CPR-3910 and provided with the CE Mark.

### PRODUCT INFORMATION

<b>Composition</b>	Drainage filaments : Polypropylene Geotextile: Polypropylene
<b>Packaging</b>	2 m x 25 m (50m <sup>2</sup> ) rolls
<b>Appearance / Colour</b>	Drainage filaments: black Geotextile: white
<b>Shelf life</b>	Under correct storage conditions, the product does not expire.
<b>Storage conditions</b>	Rolls must be stored in vertical or horizontal position, protected from rain, snow, ice and direct sunlight.
<b>Thickness</b>	Drainage filament: ~12,8 mm Geotextile: ~ 1,1 mm Geocomposite: ~ 15 mm
<b>Unit weight</b>	Drainage filament: ~650 g/m <sup>2</sup> Geotextile: ~140 g/m <sup>2</sup> Geocomposite: ~930 g/m <sup>2</sup>
<b>Resistance to Dynamic Perforation</b>	~ 21 mm

<b>Tensile Strength</b>	Longitudinally: ~ 9.5 kN/m Transversely: ~ 10.5 kN/m			
<b>Elongation</b>	(at break) Longitudinally: ~ 90% Transversely: ~ 70%			
<b>Water Permeability</b>	~ 100 mm/s			
<b>Water Flow Capacity</b>	S/R contact	i=0.04	i= 0.10	i= 1.00
	Permeability	20 kPa	0.55	0.900
	in the plane	50 kPa	0.130	0.220
	of the geo-	100 kPa	0.070	0.100
	composite /			0.400
	Hydraulic			
	transmission			

## APPLICATION INSTRUCTIONS

### APPLICATION METHOD / TOOLS

#### Vertical Installation:

The placement is performed by extending the rolls against the support to be protected. Cut the sheet to the required length. If a drain tube is placed, an extra length of 40 cm should be considered, to be folded around the tube.

The sheet is mechanically fixed to the support in its upper part, leaving about 5 cm above the earth level.

The spacing between fasteners will be approximately 25 cm, paying special attention to the areas of overlapping and to the top, where the number of anchors should be increased.

The fastenings must be polypropylene spike studs or steel studs.

The overlap between rolls will be at least 20 cm vertically and 12 cm in the horizontal, always leaving the roll against the support, placing the second on it.

The top edge shall be topped with wooden strips using a Sikaflex®-11 FC+ cord, one-component polyurethane putty and accelerated polymerization, to be placed between the sheet and the support. The corners and corner corners shall be made by folding the sheet.

#### Horizontal Installation:

The placement is done by extending the geocomposite on the support in the slope direction. Cut the blade with a length of 10 cm larger than the floor area to fold it along the edges. Anchor trenches should be made in the crowning areas and at the foot of the slope.

The overlaps between sheets will be 10 cm in both vertical and horizontal.

Connect the sheets together with plastic flanges placed every 20 cm.

Check the overlapping areas to avoid system movements and ground penetration in the system.

## IMPORTANT CONSIDERATIONS

- It is recommended not to apply the sheet on larger surfaces than the ones that can be coated shortterm.
- The landfill will be made so that a slope is formed that prevents runoff water from flowing over the wall. In any case the entry of solid particles between

the sheet and the wall will be avoided.

- The safety instructions printed on the label and local regulations must be observed.

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## ECOLOGY, HEALTH AND SAFETY

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in this product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0.1% (w/w).

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any

written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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Product Data Sheet  
Sika® Drain-15  
January 2019, Version 01.03  
020704990010000053

SikaDrain-15-en-GR-(01-2019)-1-3.pdf

