

**NEW  
STRUCTURE**

# LINING SYSTEMS MIKROSPIKE - HIGHGRIP



**agru**

Worldwide Competence  
in Plastics





## Worldwide competence in plastics

AGRU Kunststofftechnik is a high-performance Austrian company, operating in more than 80 countries. AGRU proves its competence and innovation in development, production and distribution of high-quality thermoplastic polymers. Our core business is a first class range of pipes, concrete protection sheets, semi-finished products and liners made of polyethylene (PE) and polypropylene (PP).

The product group Lining Systems offers a wide range of geomembranes made of PE, FPP and TPO. These products have proven themselves in numerous applications and are used for hydraulic and landfill engineering, groundwater protection and in tunnel construction.

To stay up to date with new landfill, mining and pond designs AGRU developed a total new structured geomembrane. It is designed to enhance the friction between the material below and on top of the liner.

## AGRU HIGHGRIP



## MIKRO SPIKE HighGrip

The AGRU MICRO SPIKE HighGrip liner is a further development of the MST+/MSB liner that has proven reliability over the last decade. The position of the spikes were relocated and optimised on the one side and a total new form was developed on the other side. It is a promising product with more than 20,000 spikes per square meter on each side.

### Features

- Homogeneous surfaces structure
- Structure on both sides  $\geq 0.9$  mm
- Mikrostructure between spikes for enhanced friction
- $> 20,000$  spikes per  $m^2$



#### Supply range

Width: 7 m

Thickness: 1.5 mm, 2.0 mm, 2.5 mm

## ENHANCED FRICTION

### Advantages

MICRO SPIKE HighGrip has its texture embossed during the manufacturing process and the spikes are an integral part of the geomembrane. This leads to a uniform, consistent surface with high friction values with many typical interface materials such as geocomposite, geotextiles, GCL's and soils. The excellent shear strength is already verified by tests. Due to the new structure the practicable slope angles are higher and the storage capacity of landfill and artificial ponds can be increased accordingly.

- Uniform appearance
- Welding area free of structure
- Slopes up to 1:2 are possible\*

\* The shearing strength significantly depends on the shearing partner (e.g. type of geotextile). It is recommended to make project specific tests to evaluate the contact shearing strength for the specific shearing partners.





## LINING SYSTEMS

High quality geomembranes made of HDPE, VLDPE, FPP and TPO for the use in landfills, hydraulic engineering and tunnels. The right sealing solution for your application

- Individual technical support
- Large product range
- System supplier



## ● LINING SYSTEMS

Y23509020114 0,4 F

Subject to errors of typesetting, misprints and modifications.  
Illustrations are generic and for reference only.

Your distributor:



AGRU Kunststofftechnik GmbH  
Ing.-Pesendorfer-Straße 31  
A - 4540 Bad Hall  
T +43 (0) 7258 790 - 0  
F +43 (0) 7258 3863  
office@agru.at  
www.agru.at