

## **MASTIGUM SPRAY- Elastic bitumen mastic for spraying application**

Cat no. 231

Version 12/16

### **Product Description**

**Mastigum Spray** is bituminous elastomeric sealant. **Mastigum Spray** offers superior waterproofing properties, flexibility and elasticity in wide range of temperatures (-10°C to 100°C). Application is simple and easy, requiring no heating. **Mastigum Spray** is also suitable for application on vertical surfaces. It is applied cold, and is neither toxic nor flammable.

### **Application**

**Mastigum spray** is used for waterproofing of basement walls, foundation floors, showers and patio floors (prior to tilling).

### **Technical Specifications**

<b>Appearance:</b>	Brownish – black paste-like, shiny
<b>Specific weight:</b>	1.18 gr/ml
<b>Viscosity:</b>	Over 40,000 CPS
<b>Solid contents (%):</b>	65
<b>Fluidity at 80°C:</b>	Non-skid, non-fluid
<b>Flexibility at -10°C:</b>	Does not crack
<b>Resistance to water spray:</b>	No noticeable change in the film after subjection to water spraying for 72 hours.
<b>Resistance to ponding water:</b>	<b>Mastigum spray</b> is resistant to ponding water maintaining bonding to infrastructure (after priming).
<b>Resistance to water pressure: (2mm thickness film)</b>	1 atmosphere for 48 hours.
<b>Elongation:</b>	1000%
<b>Recovery: (after 300% elongation)</b>	85%
<b>Resistance to impact:</b>	Good

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### Method of application:

Before application, clean the surface thoroughly to remove all dirt. Roll with cement mortar at all wall-floor seams, if required. Narrow and deep holes should be sealed, using cement mortar.

Application can be made by spraying, brushing or rolling.

1. To waterproof basement walls:
  - a. If the basement floor was sealed with bitumen membranes, apply a strip of 30 cm of membrane in the corner between the basement walls and the membranes which were applied under basement floor, 15 cm on the walls and 15 cm on the floor.
  - b. Apply low heat over the membranes to deposit the dirt and bring out melted bitumen.
  - c. Apply a coat of Mastigum Primer over the basement walls and the membranes over the basement floor, using 250-300 gr/m<sup>2</sup>. Allow to dry 30-60 minutes.
  - d. Apply **Mastigum Spray**, using a total quantity of 3-4.5 kg/m<sup>2</sup>, depends on depth of the basement and water table level. It is recommended to spray in 3 layers, allowing a short waiting interval between layers as initial drying.  
It is recommended to brush thoroughly the first layer of **Mastigum Spray** towards the substrate (also when applied by spraying), in order to prevent formation of bubbles.  
Allow to dry for 5 days after application.
  - e. Spread a Geotextile Matt, 200 gm/m<sup>2</sup>, over the waterproofing layer and then, spread protection sheet made of 0.5 mm smooth HDPE as **PROTECT 5** prior to covering.
2. To waterproof bathroom and showers floor prior to tiling:
  - a. Apply a coat of Mastigum Primer using 250-300 gr/m<sup>2</sup>, over the horizontal surfaces and the rolled seams. Allow to dry for 1-2 hours.
  - b. Apply a coat of **Mastigum Spray** on the horizontal surfaces and the rolled seams. Use 1.5 kg/m<sup>2</sup> of **Mastigum Spray**. Allow to dry for 6-8 hours. Apply second coat, using 1.5 kg/m<sup>2</sup>. Allow to dry for 24 hours at least.
  - c. Fill in sand and lay the tiles, or lay ceramic tiles by direct adhesion onto the sealing layer.

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3. To waterproof small patio floor prior to tiling:  
General: The infrastructure shall be a stable concrete infrastructure and not foamed concrete (light concrete).
  - 3.1 Apply or spray a coat of Mastigum Primer using 250-300 gr/m<sup>2</sup>, over the horizontal surfaces and the rolled seams. Allow to dry for 1-2 hours.
  - 3.2 Apply a coat of **Mastigum Spray** on the horizontal surfaces and the rolled seams. Use 1.5 kg/m<sup>2</sup> of **Mastigum Spray**.  
Allow to dry for 4-6 hours.
  - 3.3 Apply a second coat of **Mastigum Spray**, 1.5 kg/m<sup>2</sup>. Allow to dry for 12 hours.
  - 3.4 Apply (or apply by brush) a third coat of **Mastigum Spray**, Using 1.5 kg/m<sup>2</sup>. In case this is the final coat, Allow to dry for 5 days (without rain) prior to tiling. In case there are additional coats, allow to dry for 6-8 hours.
  - 3.5 In case of patio floor bigger than 10 m<sup>2</sup>, apply forth layer of **Mastigum Spray**, 1.5 kg/m<sup>2</sup>. Allow to dry for 5 days (without rain) prior to tiling.
  - 3.6 In case of patio floor bigger than 15 m<sup>2</sup>, sink Polyfabric (polyester fabric) in the fresh material between second and third coats.
  - 3.7 In case of bigger patio floors, advise with the producer.
  - 3.8 Fill in sand and lay the tiles, or lay ceramic tiles by direct adhesion onto the sealing layer.
  
- 4 To waterproof concrete roof :  
General: The infrastructure shall be a stable concrete infrastructure and not foamed concrete (light concrete).
  - 4.1 Apply or spray a coat of Mastigum Primer using 250-300 gr/m<sup>2</sup>, over the horizontal surfaces and the rolled seams. Allow to dry for 1-2 hours.
  - 4.2 Apply a coat of **Mastigum Spray** on the horizontal surfaces and the rolled seams. Use 1.5 kg/m<sup>2</sup> of **Mastigum Spray**.  
Allow to dry for 4-6 hours.
  - 4.3 Apply a second coat of **Mastigum Spray**, 1.5 kg/m<sup>2</sup>. Allow to dry for 12 hours. Let it dry for 5 days.
  - 4.4 Spread polyethylene sheet, 0.2 mm thick, on the top of the dry Mastigum Spray and lay foamed polystyrene boards as a thermal insulation layer. Then, spread additional polyethylene sheet on the

thermal insulation boards.

4.5 Cast a concrete layer, minimum 10 - 15 cm thick, with appropriate steel mesh, on the polyethylene sheet.

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4.6 14 days after casting the concrete, it is possible to apply Multigum, according to the specifications in Multigum TDS, on the concrete and the walls in the perimeter of the roof.

5 To waterproof concrete roof with bitumen membranes:

General: The infrastructure shall be a stable concrete infrastructure and not foamed concrete (light concrete).

5.1 Apply or spray a coat of Mastigum Primer using 250-300 gr/m<sup>2</sup>, over the horizontal surfaces and the rolled seams. Allow to dry for 1-2 hours.

5.2 Apply a coat of **Mastigum Spray** on the horizontal surfaces and the rolled seams. Use 2 kg/m<sup>2</sup> of **Mastigum Spray**. Allow to dry for 4-5 days.

5.3 Apply on the top bitumen membranes by torching, as well as self adhesive bitumen membranes.

**Consumption** 1.5 kg/m<sup>2</sup> in each layer, according to the application.

**Drying Time** To touch 6-8 hours. Final drying – one week.

**Packaging** 200 kg. 18 kg. 4.5 liter.

**Notes:**

- Do not store in cans at temperatures under 10°C (50°F).
- This product is ready for application and should not be diluted. If appears slightly thick, mix manually or mechanically to reduce viscosity.
- Use an appropriate “Airless” sprayer to apply the product.
- Immediately after use, clean tools first with water, then with turpentine.
- The surface of basement walls or patio floors will be dry for at least 3 days prior to the application of **Mastigum spray**.
- When concrete screed is needed to be applied on top of the waterproofing system, spread 2 polyethylene sheets, 0.2 mm thick, on top of the dry waterproofing system prior to casting of concrete.
- Do not apply the product on basement walls or balconies, if rain is expected within the next 4 days.
- A flooding test may be preformed after 7 days from completing the application.

The instructions that appear on the product are based on knowledge and experience amassed over the years. We reserve the right to change these instructions without prior notification. The operator is responsible for keeping informed of the latest updates. These instructions are solely recommendations and do not constitute liability for the product. Prior to use, the user must check the product’s suitability, and the application and environmental conditions that meet his specifications. If in doubt, please contact us and we will be happy to instruct you.