

# EMULDERZ RAY

## HOT APPLIED RUBBER MODIFIED BITUMINOUS JOINT FILLER

### DESCRIPTION:

**EMÜLDERZ RAY** is an elastomeric, bitumen-based, hot applied filling paste especially used for filling joint gaps in rails.

### USING AREAS:

At level crossing, it prevents water and other substances from entering into the joint gaps in rails. It is used for reducing vibration caused by the traffic over the rails.

### TECHNICAL PROPERTIES:

| Essential characteristics                             | Performance             |
|-------------------------------------------------------|-------------------------|
| Reaction to fire<br>(EN 11925-2:2010)                 | E                       |
| Softening point<br>(EN 1427)                          | 93°C                    |
| Density<br>(EN 13880-1)                               | 1,30 kg/dm <sup>3</sup> |
| Penetration and recovery (resilience)<br>(EN 13880-3) | 36,5 %                  |
| Compatibility with asphalt pavements<br>(EN 13880-9)  | Compatible              |
| Fraas Brittle Point                                   | - 25°C                  |
| Application Temperature                               | 160-180°C               |

### ADVANTAGES:

It considerably increases the durability of the rail bearing.  
It decreases the vibration of the rails as well as its negative impact on the buildings all around.  
It is very elastic. It maintains its elasticity between -20°C and +90°C.  
It is offered in a very practical cardboard packaging.

### SURFACE PREPARATION:

The surface to be treated must be clean and dry.  
The joints must be cleaned with a wire brush, spiral engine or sandblasting.  
If possible joint spacing must be treated with compressed air.  
To provide excellent adherence and improve durability, non-metalic surfaces can be undercoated with EMİLKOTE® and metallic surfaces can be undercoated with EMÜLZER C®.

### APPLICATION:

If you use a boiler you should first fill the half of it, heat it up to approximately 160°C and allow Emulderz Ray to melt, and then you can add the remaining amount.  
If you decrease the temperature, the product reaches an excessive consistency, loses its flowability and cannot fill the joint gaps properly.  
If the product is overheated, that is up to temperatures over 180°C or if it is heated up and cooled back for a few times it will be segregated and spoiled, and cannot be recovered.  
During heating up process the product is stirred occasionally and after having reached the appropriate consistency, it is poured into joint gaps.  
The surface treated will be ready to use after approximately 1 hour.

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**CLEANING OF TOOLS:**

Equipment can be cleaned with mineral spirits or other solvents.

**CONSUMPTION:**

1,30 kg/dm<sup>3</sup>

**STORAGE – SHELF LIFE:**

Unlimited

**PACKAGING:**

20 kg easy-to-separate Cardboard box  
48 boxes/pallet

**SAFETY PRECAUTIONS:**

Keep out of reach of children (S2).

The eyes and the skin should be protected while working with all kinds of chemicals. (S 24/25)

Never add spirits, gasoline or any other liquids to hot bitumen.

Special equipment should be used while working with hot bitumen.

Because this bulletin has been prepared considering the general conditions only, for the details except for the ones written above, please request additional written information otherwise no responsibility will be assumed due to the faults arising because of the insufficient data.

This technical bulletin invalidates the previous ones regarding this product.

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