

# Entech BitümEnflex 1KD UV 1000

Polymer Modified Bitumen-Rubber, UV Resistant,  
Single Component Waterproofing Material

## PRODUCT DESCRIPTION

Polymer modified bitumen rubber, single component, UV resistant, highly elastic (%1000) waterproofing material. It can be easily applied by brush, trowel or spray machine and provides a permanent flexible insulation.

## RANGE OF APPLICATION

Foundation and basement walls  
Wet spaces, retaining walls,  
Horizontal and vertical surfaces  
Repair of existing membranes and shingles, solving waterproofing details in all roofing elements,  
On metal roofing elements and metal roofing sheets,  
On plastic roof coverings such as CTP, PVC,  
Protection and insulation of structures and structural elements exposed to temporary or continuous water pressure and leaking water,  
External insulation of water tanks,  
Underground parking lots,  
Garden terraces,  
It can be applied for sticking of insulation and drainage boards.

## ADVANTAGES

It is easy to prepare and apply.  
UV resistant, does not require extra cover against sunlight.  
Provides a monolithic waterproofing.  
Adheres fully to the applied surfaces, especially strong to adhere to metal surfaces.  
It doesn't come off from the surface with time, does not make air bubbles.  
It has crack bridging feature.  
It is a water based product and hence it is environment friendly.  
It can be applied on vertical and horizontal surfaces. Does not flow.

## TECHNICAL SPECIFICATIONS

### Material Properties

<b>Component</b>	: Polymer Modified Bitumen Rubber
<b>Color</b>	: Brown, black when dry
<b>Density</b>	: 1,20 kg/l
<b>Solid content</b>	: 70%
<b>Application Temperature</b>	: +5 °C 35 °C
<b>Service Temperature</b>	: -20 °C 80 °C
<b>Full Drying</b>	: 1-5 Days

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## APPLICATION DETAILS

### Surface Preparation

The application surface should be dry, clean and free from loose parts. Sharp edges on the surface should be rounded with grinding machine and corners and deep gaps should be covered with repair mortar. Internal corners, joints of walls should be chamfered. This parts should be Reinforced with **Entech KSK Felt Pah Bandi**. The surface to be applied should be primed with solvent-free bitumen primer and application should be started after the primer has completely dried. As primer on the prepared surface, **Entech BitümEnflex Primer WB S /WB C bitümen** based primers can be used. The surfaces that reduce the adherence of the material should be roughened. It is recommended to mix for a short time with a medium speed mixer before use.

### Application

It should be applied on the prepared surface with brush, trowel or spray in at least 2 layers. After the first layer application, complete drying must be achieved for the second layer application. The second layer should be made perpendicular to the first layer. Reinforcement mesh (**Entech Fibermesh** 46 Gr/m2 yalıtım filesi) must be laid on the first layer while it is wet, then the second layer should be applied.

### CONSUMPTION

1.5 kg / m<sup>2</sup> should be applied to obtain 1 mm dry thickness.

Application Area	Dry Thickness (mm)	Consumption (kg)
Areas exposed to ground moisture	3 mm	4,5 kg/m <sup>2</sup>
Waterproofing for Temporary pressurized water	3 mm	4,5 kg/m <sup>2</sup>
Waterproofing for Continuously pressured water	4 mm	6 kg/m <sup>2</sup>

### PACKING

5-20-25-30 kg plastic bucket ± %2

### STORAGE

Shelf life is 12 months when unopened in a sun-free environment. Product circulation must be handled carefully. Shipment should be provided with the principle of "the product which enters the stock at first is also the first one leaves the stock".



WEAR APPROPRIATE  
EQUIPMENT

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## CONDITIONS FOR CONSIDERATION

Do not apply when it is raining or if it is likely to rain.

After the application, in the first 24 hours, application should be protected from frost, sun, strong wind.

Application should be done on the part of the structure that comes into contact with water.

As the drying of the material will be slower in cold weather, it should be ensured that the first layer is completely dry before applying the 2nd layer.

Attention should be paid to application temperature, application should be done in the temperature range of + 5 ° C + 35 ° C.

Material should not be exposed to earth pressure directly on concrete wall surfaces, measures such as application of heat insulation board, drainage board (**Entech GMFL 4** drenaj levhası) and protection wall should be taken.

In terrace applications, concrete should not be cast directly on the material, separation layers should be laid.

Root barrier foil is recommended for green terrace applications.

The application finishing level should be at the appropriate height above the ground level.

## WARNING AND RESPONSIBILITY

If the product is used out of its purpose or if the application conditions mentioned above are not complied with, **Entech Yalıtım Malzemeleri Paz. San. Tic. Ltd. Şti** is not responsible

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## PERFORMANS TABLOSU

TEST	STANDARD	CRITERIA	RESULT
Waterproofing	EN 15820	Time: 72 hours Pressure: 0,075 Bar Dry film thickness $\geq 3$ mm (without mesh)	W2B
Crack Bridging	EN 15812	Bridged Crack: $\geq 2$ mm	Cb2
Low Temperature Flexibility	EN 15813	Time:1hour, Temperature:0°C, Method:Bending in 3seconds	Pass
Dimensional Stability at High Temperature	EN 15818	Time: 2 Hours, Temperature: 70 °C	Pass
Water Resistance	EN 15817	28 Days Soaking	Pass
Rain Resistance	EN 15816	Sprinkling is performed 24 hours after the application	R1
Reduction in Layer Thickness	EN 15819	Must be less than 50%.	Pass
Fire Resistance	EN 13501-1	Euroclass	E
Elongation at Break	ISO 37		Min.% 1500
UV Resistance	MIL-STD-810G	2 Years UV Resistance/Aging	Pass

Entech Yalıtım Malzemeleri Pazarlama  
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