



## In short

RESION PU Foam is a lightweight, hard foam for filling voids in boats, tanks, floats. It can also be used as a core for polyester sculptures, as insulation and as noise reduction.

Mix both components in a 1:1 by volume ratio. Ensure a quick but thorough mix by using a power drill and spiral mixer. Mix small batches at a time, at least until experience is gathered to handle larger volumes. Pour the mixed foam in the cavity that needs to be filled.

## Application

RESION PU Foam is a 2 component hard foam with closed cells of small size. The foam is rot-resistant and lightweight. It is used as a buoyancy aid in boats, as stiffener in hollow structures, as floats, in buoys, but also in fridges and freezers and as a means of reducing noise.

## Properties

- Easy to use
- Light yellow
- Long open time
- Fast cure
- 25:1 expansion

## Usage

Determine the amount of product needed. Keep in mind that in narrow cavities a over dosage of up to 100% can be needed to fully fill the cavity.

In order to get similar results, make sure the circumstances are the same. Those circumstances can be:

Mix component A well

Keep temperature of A and B component constant (minimum 18°C)

Weigh or measure both components before mixing. Mix component A and add component B.

Use a large mixer. For instance a 90mm spiral mixer at 1500 RPM for 5-10 kg batches.

Overdosing the foam into narrow cavities can increase the density and the pressure on the cavity walls.



Wet the surface of small cavities (with brush, sprayer or by tumbling the cavity) to help adhere the foam to the walls.

Long, narrow shapes should be positioned at an angle of 10-15° to help them fill completely.

Make sure the cavity is at 15-25°C.

## Technical details

### Mixing Ratio

|                          |                                     |
|--------------------------|-------------------------------------|
| Mixing ratio (by volume) | 1 component A and 1 component B     |
| Mixing ratio (by weight) | 100 component A and 120 component B |

### Handling times

|               |                |
|---------------|----------------|
| start time:   | ca. 50 seconds |
| foaming time: | ca. 60 seconds |
| curing time:  | ca 10 minutes  |

Times depend on temperature

### Liquid properties

|                     |                        |
|---------------------|------------------------|
| Color A:            | yellow                 |
| Color B:            | brown                  |
| Viscosity A (20°C): | ca 150 mPa.s           |
| Viscosity B (20°C): | ca 250 mPa.s           |
| Density A (20°C):   | 1,18 g/cm <sup>3</sup> |
| Density B (20°C):   | 1,22 g/cm <sup>3</sup> |

### Cured properties

|                                  |   |
|----------------------------------|---|
| Color:                           | Yellow (turns dark in sunlight)   |
| Density:                         | 0,04 g/cm <sup>3</sup>  |
| Expansion:                       | ca. 25:1 (depends on temperature)   |
| Compression strength (DIN 53421) | 0,27 N/mm <sup>2</sup>  |
| Water uptake (24H, DIN 53428)    | 1,3 vol%  |
| Closed Cells (ISO 4590)          | 91 vol%   |
| Temperature resistance:          | 80°C  |
| Chemical resistance:             | fuel, diesel, alifatic carbohydrates, diluted acids and alkalis, water salt water, soil |

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## Handling

Use nitril gloves, safety goggles and a respirator. Keep lids closed.

## Storage and shelf life

Store dry, cool and well ventilated. Store in original containers. Keep container shut to prevent moisture uptake. Keep away from sunlight and UV light.

If stored accordingly the shelf life is more than 6 months.