



Product code : 74088

## EMFIMASTIC PU 40 FC

Benefits from the SNJF Label in class F 25E.

### DESCRIPTION

EMFIMASTIC PU 40 FC is a single component polyurethane based elastomeric sealant. It forms a joint of high elasticity and has a good resistance to tear and to weather.

It cures rapidly under the effect of atmospheric humidity.

It benefits from the SNJF Label on anodized aluminium and on mortar in class F 25E (field of application facade).

EMFIMASTIC PU 40 FC has CE marking for following applications:

- sealant for facade elements for interior and exterior applications usable in cold climate according to European Standard EN 15651-1 (F EXT-INT CC).
- sealant for pedestrian walks for interior and exterior applications usable in cold climate according to European Standard EN 15651- 4 (PW EXT-INT CC).

### AREAS OF APPLICATIONS

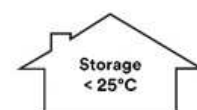
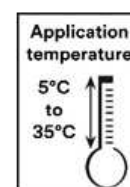
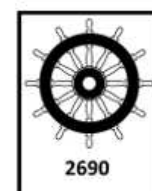
EMFIMASTIC PU 40 FC is specially adapted for bonding various building materials and for expansion joints.

This sealant adheres without primer on substrates commonly used, like wood, anodized aluminium, polyester, glass, concrete, baked clay, stone, ceramic tiles.

For difficult materials, including plastics such as PVC, ABS, PMMA, or materials such as raw aluminium or lacquered metal, perform preliminary tests to determine whether a surface preparation is necessary.

### TECHNICAL DATA

|  |  |
|--|--|
| Appearance   | Pasty  |
| Color  | Black, white, grey. Contact sales department for other available colors. |
| Density at 20°C  | Black: 1.15 ± 0.02 - Others: 1.16 ± 0.02                                 |
| Sagging (ISO 7390)   | < 3 mm   |
| Application temperature  | 5 to 35°C  |
| Skin formation time at 23°C and 50 % RH                            | Approx. 50 min *   |
| Cure time at 23°C and 50 % RH                                      | > 3 mm after 24h   |
| Shore A hardness (internal method IT-20 after ISO 868 - 3 seconds) | Approx. 40 after 14 days   |
| Modulus at 100 % (ISO 8339)  | Approx. 0,4 MPa  |
| Elongation at break (ISO 8339)                                     | > 400 %  |



|                                      |   |
|--------------------------------------|---|
| Modulus at 100 % (ISO 37)            | Approx. 0,3 MPa   |
| Modulus at break (ISO 37)            | Approx. 1,4 MPa   |
| Elongation at break (ISO 37)         | > 600 %   |
| Tear strength (ISO 34)               | Approx. 8.5 N/mm  |
| Temperature resistance               | -40 to +80°C (on cured sealant)   |
| Resistance to dilute acids and bases | Average   |
| UV resistance                        | Good  |
| Weatherability                       | Excellent   |
| Compatibility with paints            | On cured sealant:<br>- water based paints: yes<br>- solvent based paints: carry out tests beforehand  |
| Specific data                        | Classification according to ISO 11600 standard: Class F - 25 HM - Aup* - M2up* (* up: means without primer).<br>Classification according to ASTM C-920 standard: Type S, Grade NS, Classes 25 and 50, uses NT, A and M.<br>Benefits from the SNJF Label on anodized aluminium and on mortar: elastomeric sealant in class F 25E (grey, grey 7016, white, brown, black, sand beige, havana and clay brown colors). |

\* this time depends on hygrometry and ambient temperature. In order to ensure a good adhesion, it is mandatory to do the bonding before the product has formed its skin.

## INSTRUCTIONS FOR USE

### Substrate preparation:

The substrates must be clean, even, dry, dust free and not have any traces of grease or other contaminants that could harm bonding.

If the substrates need to be cleaned, use EMFINET 683, methylethylketone (MEK), acetone or DEGREASER 1001. For materials sensitive to ketones, use ethanol.

Check their compatibility with the substrates.

If necessary, apply a primer - contact our technical department if needed.

It is recommended to rub down concrete, particularly cement film residue, with a metal brush. After scraping, remove the dust.

If necessary, rub down metallic surfaces beforehand (especially in presence of oxidation). After rubbing down, clean them with a solvent and allow to dry for at least 10 minutes.

Note: when using solvents, extinguish all sources of ignition and carefully follow the safety and handling instructions given by the manufacturer.

### Caulking:

EMFIMASTIC PU 40 FC can be applied by a manual or pneumatic gun.

Use a polyethylene backing foam in order to:

- avoid adhesion of the sealant on the bottom
- observe width/ depth ratio defined by the following rule: optimal joint's depth = joint's width / 2, with a minimal depth of 8 mm.

It is possible to realize joints from 10 to 35 mm width with this sealant.

After application, use a putty knife to smooth the joint with soapy water.

### Cleaning:

Tools can be cleaned with EMFINET 683, methylethylketone (MEK), acetone or EMFICLEAN AL wipes before the sealant has completely cured. After curing, abrasion is necessary.

## LIMITATIONS

This product should be used within 24 hours which follow the opening of the packaging; otherwise, the sealant could cure.

Do not apply at a temperature below 5°C.

Avoid any contact with non-cured MS, hybrid PU or silicone sealants as well as with alcohols or ammonia during curing.

## CONSUMPTION

300 ml cartridge, depending on the diameter of the cannula:

|                         |    |    |    |    |      |     |     |     |     |
|-------------------------|----|----|----|----|------|-----|-----|-----|-----|
| Diameter of the cannula | 2  | 3  | 4  | 5  | 6    | 7   | 8   | 9   | 10  |
| Length (linear meter)   | 95 | 42 | 24 | 15 | 10.5 | 7.5 | 5.5 | 4.5 | 3.5 |

600 ml sausage, depending on the diameter of the cannula:

|                         |     |    |    |    |    |    |    |   |    |
|-------------------------|-----|----|----|----|----|----|----|---|----|
| Diameter of the cannula | 2   | 3  | 4  | 5  | 6  | 7  | 8  | 9 | 10 |
| Length (linear meter)   | 190 | 85 | 47 | 30 | 21 | 15 | 11 | 9 | 7  |

300 ml cartridge, depending on the width of the joint (ensure compliance with the sizing rule specified in the Instructions for use):

|                         |     |     |     |     |     |     |
|-------------------------|-----|-----|-----|-----|-----|-----|
| Width of the joint (mm) | 10  | 15  | 20  | 25  | 30  | 35  |
| Length (linear meter)   | 3,8 | 2,5 | 1,5 | 1,0 | 0,7 | 0,5 |

600 ml sausage, depending on the width of the joint (ensure compliance with the sizing rule specified in the Instructions for use):

|                         |     |     |     |     |     |     |
|-------------------------|-----|-----|-----|-----|-----|-----|
| Width of the joint (mm) | 10  | 15  | 20  | 25  | 30  | 35  |
| Length (linear meter)   | 7,5 | 5,0 | 3,0 | 1,9 | 1,3 | 0,9 |

For information purpose, dependent on the bonding conditions (surface's state, substrates, etc.)

## STORAGE AND SHELF LIFE

12 months in closed original packaging stored at a temperature below 25°C.

In cold weather, store the packaging at about 20°C before use.

## PACKAGING

300 ml cartridges and 600 ml sausages.

Contact us for other packaging options.

## SAFETY

Read material safety data sheet before use.

The technical data contained herein is based on our present knowledge and experience and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings that result from technological changes or research between the date of issue of this document and the date the product is acquired. Before using the product, the user should carry out any necessary tests in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use if they think that the information in their possession needs to be clarified in any way, whether for normal use or a specific application of our product.

Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions.

The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.