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| <b>MATERIAL'S TECHNICAL DATA SHEET</b> | DATE : 12/12/2021<br>REVISION NO:01<br>DOC. NO: R2Q-PU0021 |
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## FA MMX FILTER GLUE

### 1.) DESCRIPTION and FEATURES

It consist of polyalcohol combination containing OH<sup>-</sup> groups based, solvent-free component A , and isocyanate based component B as curing agent . It's a polyurethane based, very strong and 2 component glue. A/B mixing ratio is applied as 5/1 on weight basis and 4/1 on volume basis. At the end of the curing that will occur after a homogeneous mixing, no serious change in volume can be observed. The applying temperature range is wide and it can be worked comfortably from 5 °C to 50 °C. Gelling time is optional and is between a few seconds to 45 minutes. Dry to the touch requires twice the gelling time.

### 2.) USAGE AREA

It is used in the filter industry for the purpose of bonding the filter components to each other. It is also used in bonding, repairing, filling and/or coating of metal and synthetic materials for protection from external effects.

### 3.) PHYSICAL and CHEMICAL PROPERTIES

|                        | Component A          | Component B  |
|------------------------|----------------------|--------------|
| Appearance             | Viscous, White Paste | Brown Liquid |
| Density (25 °C)        | 1,55 – +0,1          | 1,20 – +0,02 |
| Boiling Point (25 °C)  | 313 °C               | 200 - 208 °C |
| Vapor Pressure (25 °C) | Not Applicable       | Negligible   |
| Solubility in Water    | Insoluble            | Insoluble    |
| Smell                  | Slight odor          | Odourless    |
| Mixing Ratio by Weight | 5                    | 1            |
| Mixing Ratio by Volume | 4                    | 1            |

|                                  | Mix (5A+1B)                          |
|----------------------------------|--------------------------------------|
| Appearance                       | Cream Paste                          |
| Density (25 °C)                  | 1,50 – +0,05                         |
| Vapor Pressure (25 °C)           | Not Applicable                       |
| Solubility in Water              | Insoluble                            |
| Smell                            | Slight odor                          |
| Gel Time (25 °C)                 | Optional, Between 1 to 15 min.       |
| Touch Drying Time (25 °C)        | Optional, Between 2 min. to 1,5 hrs. |
| Reaction Completing time (25 °C) | Between 2-7 days                     |

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### 4.) APPLICATION

The surfaces to be applied and the equipment to be used should be clean, dry enough and free of dust, rust and loose layers. It is recommended to sand the smooth surfaces to strengthen adhesion. Mixing can be done using automatic machines or manually. If it is to be done manually, take 5 parts by weight of component A and 1 unit of B and mix. If it is to be taken on the basis of volume, take 4 units from A and 1 unit from B and mix. The mixture must be consumed within the gelling time. Although this time is adjusted during manufacturing, it is shortened parallel to increasing temperature.

Glue components should be avoided from moisture and water. Otherwise, swelling and poor adhesion problems are encountered. The same problems occurs if the two components do not mix homogenously.

The recommended operating temperature is 15 °C - 45 °C. At lower temperatures, extreme elongations of reaction time may occur. At higher temperatures, the amount of mixture may need to be reduced, as the application time of the mixture will be reduced.

### 5.) CLEANING

In cases of unwanted contamination, acetone, cellulosic thinner or a mixture of the two solvents may be used for cleaning before drying time. After drying time, only mechanical cleaning or can be done with the solvent available from our company.

### 6.) STORAGE

Keep in a cool, dry and airy places unexposed to direct sunlight and far from spark sources, as closed tightly.

### 7.) WARNINGS

Follow the instructions on the label and the safety data sheet.

Wear protective equipment (goggles, masks, gloves, clothing). Avoid inhalation and skin contact. Wash with plenty of soapy water on contact. Seek medical attention if the condition persists.



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### WARNING :

All the information given in this document is based on our current knowledge and experience. However, external conditions and application factors that may affect our product are beyond our control. Therefore, our company cannot be responsible for any errors and damages that may occur during and after the application. We recommend that practitioners use our products by conducting their own checks and tests. The data contained herein does not guarantee the suitability of the material for any particular purpose or property.