

# FILTRATION



## MEMBRANE SEPARATION PRODUCT SELECTOR GUIDE

H.B. Fuller has been providing innovative products and technical solutions to the membrane separation market for over 30 years. Our team of technical and sales experts listen, collaborate, and participate in industry organizations with our customers, to deliver new and innovative adhesives relevant to the evolving liquid separation market.

### GLOBAL LEADER AND INNOVATOR

Recognized as a market leader in adhesives for membrane separation, we have an innovative product line that has gained global acceptance and is used for application around the world. Our products offer a wide variety of solutions. Whether you produce products that enable clean water production, life-saving medical procedures, energy production, innovative new pharmaceuticals, or the simple enjoyment of a cold beverage, we have an adhesives solution for you.

### SAFETY

Product safety and reliability is paramount for liquid separation applications. We take this seriously and have a proven track record of producing reliable products and a safe solution for your FDA or NSF products.

### PRODUCTION SELECTION

Selecting the right adhesive for your membrane separation application takes knowledge and experience. How these materials interact with different types of membrane, the manufacturing process used to assemble the element, and the material properties of the adhesive itself are all critical to the quality and final performance of your element. That is why we dedicate a team of technical and sales experts to this market segment who are here to help you.



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| Application                 | Product      | Feature  | Benefit   | Typical Element Use  | Certifications and Regulatory Compliance   | Chemistry Type |
|-----------------------------|--------------|--|---|--|--|----------------|
| <b>SPIRAL WOUND</b>         |              |  |   |  |  |                |
| Membrane bonding            | UR3501       | Thixotropic rheology                                       | Penetrates membrane well while staying up on surface to seal leaves                         | Sea water and brackish water desalination                                    | NSF/ANSI - Standard 61 certified<br>Compositionally complies with FDA 21CFR175/105 | 2K PU          |
| Membrane bonding            | UR3577LV     | Ease of use  | 1:1 mix ratio at low viscosity make this product easy to use                                | Sea water and brackish water desalination<br>Point of use water purification | NSF/ANSI -Standard 61 certified<br>Compositionally complies with FDA 21CFR175/105  | 2K PU          |
| Membrane bonding            | UR3543A/B TF | Best chemical resistance                                   | Withstands highly alkaline conditions at elevated temperatures                              | Dairy, food processing and industrial separations                            | Compositionally complies with FDA 21CFR175/105                                     | 2K PU          |
| Hollow fiber potting        | UR2187       | Low viscosity, moderate hardness                           | Potts high density fiber packs well, easy to cut  | Dairy, food processing and industrial separations                            | Compositionally complies with FDA 21CFR175/105                                     | 2K PU          |
| Membrane bonding            | UR3586       | Reduced blistering   | Reduces blistering on certain membranes; high resistance to alkali at elevated temperatures | Dairy, food processing and industrial separations                            | Compositionally complies with FDA 21CFR175/105                                     | 2K PU          |
| Membrane bonding            | UR3577M      | Low viscosity formulation                                  | Suitable for gravity feed designed, to reduce defects                                       | Sea water and brackish water desalination<br>Point of use water purification | NSF/ANSI - Standard 61 certified   | 2K PU          |
| Membrane bonding            | FE7280       | Excellent membrane penetration and non-sag characteristics | Resists osmotic blistering and is highly chemical resistant                                 | Dairy, food processing and industrial separations                            | Compositionally complies with FDA 21CFR175/105                                     | 2K epoxy       |
| Outer wrap                  | FE7258       | High structural strength                                   | Strong and durable outer wrap when reinforced with glass fiber                              | Desalination, industrial, food and specialty membrane separations            | Compositionally complies with FDA 21CFR175/105                                     | 2K epoxy       |
| <b>HOLLOW FIBER</b>         |              |  |   |  |  |                |
| Hollow fiber potting        | UR3532 ANF   | Medium cure speeds   | Excellent chemical resistance   | Water and specialty membrane separations                                     | NSF/ANSI - Standard 61 certified<br>Compositionally complies with FDA 21CFR175/105 | 2K PU          |
| Hollow fiber potting        | UR2187       | Low viscosity, moderate hardness                           | Potts high density fiber packs well, easy to cut  | UF and MF pretreatment for RO  | NSF/ANSI - Standard 61 certified<br>Compositionally complies with FDA 21CFR175/105 | 2K PU          |
| <b>MEDICAL HOLLOW FIBER</b> |              |  |   |  |  |                |
| Hollow fiber potting        | FH3911       | Clear color, fast cure                                     | Excellent choice for specially medical separations, very good high temperature performance  | Medical separations, profusion   | ISO 10993-4, ISO 10993-5, ISO10993-10, USP Class VI                                | 2K PU          |
| Hollow fiber potting        | TL0600       | Medium cure speeds   | Proven product for hemodialysis applications  | Medical separations, hemodialysis  | Compositionally complies with FDA 21CFR175/110                                     | 2K PU          |
| Hollow fiber potting        | TL0632F      | Fast cure speeds, very low viscosity, high hardness        | Fast processing, excellent fiber wetting, high strength                                     | Specialty membrane separations   | ISO 10993-5  | 2K PU          |

IMPORTANT: Information, specifications, procedures and recommendations provided ("information") are based on our experience and we believe this to be accurate. No representation, guarantee or warranty is made as to the accuracy or completeness of the information or that use of the product will avoid losses or damages or give desired results. It is user's sole responsibility to test and determine the suitability of any product for the intended use. Tests should be repeated if materials or conditions change in any way. The user is advised to review the specific context of the intended use to determine whether the user's intended use violates any law or infringes upon any patent(s). No employee, distributor or agent has any right to change these facts and offer a guarantee of performance.

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