



### HBF 833 Technical Data Sheet

#### Polyurethane Sealant

##### Material Description

HBF 833 is a high quality, multi-purpose, sag-resistant one-component polyurethane sealant. This material is condensation cure material.

It is used for automobile manufacturing, trailer and RV manufacturing, shipping industry, container manufacturing, heating and ventilation systems, and a variety of maintenance and repair applications.

##### Features & Benefits

- Low odor
- Outstanding weather and aging resistance.
- Surface can be painted
- non-corrosive
- Adhesion to a variety of materials have good adhesion chemical media capability
- Resistant to age hardening, providing a consistent durometer measurement
- Good UV resistance, making it ideal for interior and exterior applications.

##### Curing Profile

HBF 833 sealant cures on exposure to atmospheric humidity. Within minutes of application the material skins over and starts to form into a durable elastomer.

When the humidity level is low the cure times will be lower.

Full-cure is 7 Days at 77°F or 5 hours at 158°F.

Contact HB Fuller technical support for additional recommendations.

##### Properties

| Property                 | Test Method   | Value             |
|--------------------------|---------------|-------------------|
| Chemistry                | --            | Polyurethane      |
| Color                    | Visual        | White / Black     |
| Specific Gravity         | GB/T 13477    | 1.3               |
| Viscosity                | --            | Thixotropic paste |
| Cure type                | --            | Moisture Cure     |
| Tack-free Time (min).    | JB/T7311      | 47                |
| Cure time (in/24 h)      | JB/T10900     | .138"             |
| Shore hardness (Shore A) | ISO 7619:2004 | 43                |
| Tensile Strength (PSI)   | ISO 37:2005   | 406               |
| Elongation at break      | ISO 37:2005   | 550%              |
| Tear Strength (lbf/ft)   | ISO 34-1:1994 | 850               |
| Service Temperature      | --            | -40°F to +194°F   |
| Short Term Temp (8 hrs)  | --            | 248°F             |
| Shelf Life Stored @77°F  | --            | 6 Months          |

##### Surface treatment and preparation

Seam or joint surface surfaces should be clean, dry and free of oil and dust. To ensure the best bonding results, use a cleaning agent and/or primer.

It is not recommended to use HBF 833 at temperatures below 41°F or higher than 95°F.

For ease of use, the optimal storage temperature should be between 50°F and 77°F.



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### Application Notes

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HBF 833 material is available in plastic cartridges, aluminum foil sausage packs, pails and drum packaging.

HBF 833 is typically dispensed through a nozzle that has an opening with the desired dimensional extrusion size. This is done by cutting the opening on a cartridge of sausage pack tip or with custom metal designed nozzles for bulk dispensing.

Once the packages are opened, it is recommended to use the shortest possible time to apply the materials. It is not recommended to reseal and use the material at a later date.

Avoid using alcohol solvents and cleaning agents as glass trim lubricating material.

After material is applied it can be smoothed with a spatula and soapy water. Edges can be masked with tape and removed after material cures. Similar to what is done when painting masked areas.

### Painting surfaces

HBF 833 material surface can be painted after it is fully cured. It is highly recommended that a pre-test be done on a small sample area to confirm paint compatibility and adhesion. This should be done before painting large surface areas.

### Primers

Depending upon the types of substrates, it may be necessary to use a primer as an adhesion promoter to increase bond strength.

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### Storage & Shelf Life

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HBF 833 should be stored in a cool, dry place. Shelf life is a minimum of six months in original unopened containers when stored at 77°C.

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### Clean Up

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Methyl ethyl ketone, iso-propanol and denatured alcohol are useful in any cleanup of 833, blends of solvents will perform better than simple solvents.

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### Health & Safety Precautions

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Please see the Safety Data Sheet (SDS) for proper handling and disposal instructions.

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### Note

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The values noted in this data sheet are typical properties only and are not intended to be used as material specifications.

For assistance in writing a material specification, please contact HB Fuller for future details.

Manufactured Exclusively For:



22290 Challenger Drive  
Elkhart, IN 46514  
(574) 970-8425  
www.titansc.com

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North America  
888-HBFULLER  
888-423-8553

inquiry@hbfuller.com  
www.hbfuller.com