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| Uniclass L6751:P7112 |     |
| March 2012           |     |



# FM230 Window Seal Foam

## Polyurethane Foam for Sound & Thermal Insulation

### KEY BENEFITS SUMMARY

- 10 year i3 performance guarantee\*
- Good elasticity with MAF > 35%
- Good dimensional stability
- Rapid cutting capacity
- Excellent bonding to various substrates
- Low post expansion reduces need to cut back excess

### PRODUCT INFORMATION

#### Description

illbruck FM230 is a one component, moisture curing, polyurethane foam which is gun applied.

#### Usage / Purpose

illbruck FM230 is particularly suited for thermal and sound insulation around window and door frames. MPA tested elasticity and 'winter foam' guarantee in application temperatures as low as 0°C. Suitable for cavity filling, insulating and bonding. Excellent adhesion to brick, block, stone, plaster and cementitious materials as well as wood, metal and a variety of plastics. Achievable sound insulation index of 60 dB in the joint.

#### LIMITATIONS

illbruck FM230 is not UV resistant and should be protected from sunlight with a suitable opaque sealant, filler or paint. As with all PU foams, it does not bond to polythene, Teflon®, siliconised or wax- like surfaces.

#### Colour

White

#### Packaging

750 ml gun grade x 12 cans per box

#### Availability

Direct from Tremco illbruck (see back of leaflet for address and telephone details) or via local and national distributors.

#### USAGE GUIDELINES

##### Necessary Tools

Cutting knife, tape for masking of adjacent areas. illbruck PU solvent cleaner to clear gun after use. Unstable areas may need to be clamped or secured during curing.

##### Preparation

- Always carry out a test to confirm compatibility prior to use.
- Protect floor coverings with paper or a plastic film.
- The surfaces must be dry, solid, stable and capable of carrying the load of the panels to be installed.
- Remove all loose particles, dust and grease.
- A speedier cure can be attained by moistening the substrates if needed.

##### Application

- Shake the canister vigorously at least 20 times. Remove the protective cap and screw canister onto the illbruck PU foam gun.
- Invert can and direct nozzle into gap, pressing gently on the trigger to establish the correct flow rate.
- Joints should be under filled to allow for post expansion of the foam. Fill to approximately 80% of joint depth for optimum results.
- For best results always work with the canister in a vertical position and keep the valve pointed downwards.
- On horizontal surfaces always work away from the exuding bead and work upwards on all vertical surfaces.
- When filling deep joints apply in layers, waiting until each layer has skinned and partially cured before applying the next.

- Applying a light misting of clean water between each layer before subsequent application will assist adhesion and cure speed.
- The satisfactory filling of joints less than 10 mm wide is unlikely to be achieved without the use of a special tapered nozzle adaptor supplied with Tremco illbruck Silver Foam Guns.

##### Cleaning

Clean the gun by removing the foam canister and replacing with a can of illbruck PU foam cleaner. Remove excess foam immediately with illbruck PU foam cleaner or acetone. Ensure surface is solvent resistant before cleaning. Cured foam can only be removed mechanically.

##### Storage

Store in shaded dry conditions between +10°C and +25°C. Store canisters upright.

##### Shelf Life

12 months when stored as recommended in original unopened containers. The product is contained in a pressurised container - observe storage instructions and do not apply heat.

##### Health & Safety Precautions

Use only in well-ventilated areas. No smoking. Wear suitable protective clothing. Wear suitable gloves and eye/face protection. Product Safety Data Sheet must be read and understood before use.



#### "i3" Window Sealing System

Part of the state of the art, i3- approved sealing system, with a 10 year guarantee.\* This system fulfils the EnEV requirements with regards to airtightness.

\*Under the conditions specified by the manufacturers. Only valid on receipt of the correct registration documents in accordance with terms and conditions, available on request.

## TECHNICAL INFORMATION

|                         | Test Method            | Result                  |
|-------------------------|------------------------|-------------------------|
| Building Material Class | DIN 4102               | B2                      |
| Thermal Conductivity    | DIN 52612              | 0.03 W/(m.K)            |
| Maximum Acoustic Rating | EN ISO 140-1 : 2005-03 | 60 dB                   |
| Tensile Strength        | DIN 53455              | 65 KPa                  |
| Elongation at Break     | DIN 53455              | >15%                    |
| Water Absorption        | DIN 53428              | 0.3 vol %               |
| Shear Strength          | DIN 53422              | 40 KPa                  |
| Application Temperature |                        | 0°C to +35°C            |
| Cutting Time            | 30 mm bead             | after 45 minutes        |
| Yield                   | freely foamed          | approximately 45 litres |

### Technical Service

Tremco illbruck has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 0191 419 0505.

### Guarantee / Warranty

Tremco illbruck products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco illbruck written instructions and (b) in any application recommended by Tremco illbruck, but which is proved to be defective, will be replaced free of charge.

No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct.

Tremco illbruck Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.



Fig 1 For the perimeter sealing of windows & doors



Fig 2 Seals against draughts



Fig 3 Optimal thermal insulation

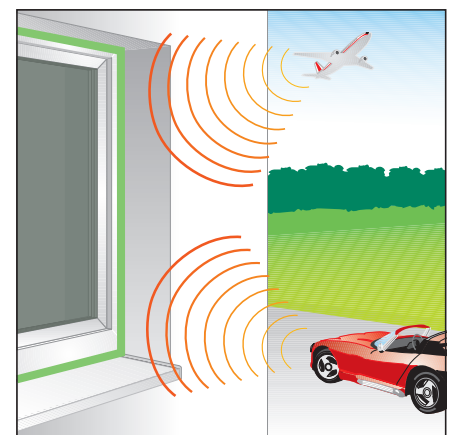


Fig 4 Sound insulation up to 60 dB