

CI/SfB	Yt4
CAW P22	
Uniclass L6751:P7112	
July 2010	

KEY BENEFITS SUMMARY

- 2 hour fire rating tested to BS476 Part 20 and DIN 4102 Pt 1 (B1)
- Patented conical straw system increases yield by up to 15% compared to standard PU foam
- Suitable for filling, sealing and insulation of joints and gaps in a variety of fire rated applications
- Forms a strong bond to concrete, brickwork, stone, plaster, wood, fibre concrete, metal, PVC and polystyrene
- Rapid curing formulation: Foam is tack free within 10 minutes, and can be cut or trimmed within 60 minutes

PRODUCT INFORMATION

Description

illbruck FM410 is a fire rated hand held expanding polyurethane foam. It can provide up to 2 hours fire resistance in linear joints, has excellent thermal and acoustic insulation properties and forms a strong bond to most construction materials.

Usage / Purpose

illbruck FM410 is a modified one component polyurethane foam suitable for the filling / sealing of joints and gaps requiring fire rated properties. These include the perimeter sealing and fixing of fire resistant windows and doors and the sealing of mechanical and electrical service penetrations through compartment walls and floors.

LIMITATIONS

illbruck FM410 is not UV resistant and should be protected from sunlight using 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

Beige

Packaging

750 ml pressurised canister (12 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. 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 cap and screw the nozzle firmly into the connector on the top of the can.
- Joints should be underfilled to allow for post expansion of the foam. Fill to approximately 50% of joint depth for optimum results.

- For best results always work with the canister in a vertical position and keep the valve pointed downwards.
- 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.
- Enhanced performance can be achieved by capping with a suitable Intumescent or fire rated sealant such as Nullifire M701 or M703. For further information please consult our Technical Sales Department.

Cleaning

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.

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.

FM410

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TECHNICAL INFORMATION

	Test Method	Result
Composition		Polyurethane Foam
Water Absorption	EN 1609	0.2%
Limits Canister Temperature		+10°C to +30°C
Limits Ambient Temperature		+10°C to +35°C
Density		25 - 35 kg/m ³
Tack Free Time	3 cm in width at 23°C and 50% RH	10 minutes
Cutting Time	3 cm in width at 23°C and 50% RH	60 minutes
Loading Time		24 hours
Tensile Strength	DIN 53455	129 kPa
Compressive Strength (10%)		59 kPa
Elongation at Break		18%
Thermal Conductivity	EN 12667	36 mW/m.K
Temperature Resistance		Short Term: -40°C to +130°C Long Term: -40°C to +90°C

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 01942 251400.

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.