

Description

FM110 is a rapid curing gun grade fire-retardant polyurethane foam. It is compatible with many substrates and has excellent adhesion and fire-retardant properties.

Colour

Grey

Packaging

750 ml pressurised canister (12 per carton)

Technical Information

Property	Test Method	Results
Composition		Polyurethane foam
Fire Class	DIN 4102-1	B1
Yield		~ 46 litres
Fill Joint Up To		80%
Density	EN 17333-1	~ 25-35 kg/m ³
Tack Free Time	EN 17333-3	~ 10 min
Cutting Time	EN 17333-3	~ 45 min
Loading Time		~ 24 hours
Thermal Conductivity	EN 12667	~ 36 mW/m.K
Tensile Strength	EN 17333-4	Dry: ~ 105 kPa Wet: ~ 106 kPa
Elongation at Break	EN 17333-4	Dry: ~ 52% Wet: ~ 22%
Compressive Strength (10%)	EN 17333-4	Dry: ~ 28 kPa Wet: ~ 38 kPa
Shear Strength	EN 17333-4	Dry: ~ 40 kPa Wet: ~ 43 kPa
Application Temperature		Canister: 5°C to 30°C Ambient: 0°C to 35°C
Temperature Resistance		Long term: -40°C to 90°C Short term: -40°C to 130°C
Water Absorption		~ 0.2 kg/m ²
VOC Value		~ 17.42%
Shelf Life		18 months shelf life in original unopened package.
Storage Conditions		Store upright in shaded dry conditions between +5°C and +30°C.

Properties (for example yield) may vary towards the end of shelf life and dependent upon storage conditions. Data measured at 23°C and 50% RH.

Preparation

Surfaces must be clear, solid, durable, and stable. Remove all loose particles, dust, and grease.

If necessary, moisten the surfaces to be adhered to before applying the foam to achieve a faster cure.



FM110

Window Foam B1



Usage / Purpose

This one-component B1 classification polyurethane foam is suitable for filling the connection joints of window and door frames, as well as for insulation. It adheres excellently to a variety of common construction substrates, such as concrete, masonry, stone, plaster, wood, fiber cement, metal and numerous plastics (polystyrene, PUR rigid foam, polyester, rigid PVC).

Key Benefits

- High sound and heat insulation
- Good dimensional stability
- Resistant to decay, heat, water and many chemicals
- Rapid curing time and fast cutting time
- B1 Fire classification to DIN 4102-1

Application

- Shake the canister vigorously at least 20 times. Remove the protective cap and screw canister onto the illbruck PU foam gun.
- For use with the AA210 nozzle, fix the nozzle on the valve and turn by 90 degrees before use. When using, the canister should be kept upside down. Foam volume is regulated by using the adjusting screw and gun's trigger.
- 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.

Cleaning

Clean the gun by removing the foam canister and replacing with a can of AA290 PU Foam Cleaner. Remove excess foam immediately with AA290 PU Foam Cleaner or acetone. Ensure any substrate requiring cleaning is solvent resistant before proceeding. Cured foam can only be removed mechanically.

Please Note

After extrusion, FM110 cures with moisture from the air. The skin formation time is dependent on the humidity level in the surrounding air. At 23°C and 50% relative humidity, the skin formation time is approximately 10 minutes. This reaction can be accelerated by (pre-)moistening.

Resistant to most general chemicals after curing. However please contact illbruck technical service if in any doubt.

Health & Safety Precautions

Safety data sheet must be read and understood before use. Extremely flammable- keep away from open flames and other ignition sources.

Technical Service

Tremco CPG UK Limited 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 CPG UK Limited products are manufactured to rigid standards of quality. Any product which has been applied (a) in

accordance with Tremco CPG UK Limited written instructions and (b) in any application recommended by Tremco CPG UK Limited, 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 CPG UK Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.



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