

illbruck PU033

Single component, moisture cured, polyurethane foam adhesive

PRODUCT DESCRIPTION

illbruck PU033 is a rapid curing gun grade polyurethane, collapsing foam adhesive.

USAGE/PURPOSE

It is ideal for the rapid installation of plasterboard, insulation or acoustic panels, EIFS, roof decking and similar sheet materials. PU033 is compatible with many common substrates including masonry, concrete, timber and metal.

FEATURES & BENEFITS

- An easy to use alternative to mortars and dry wall adhesives.
- Ideal for bonding plasterboard, insulation and EIFS panels.
- Forms a high strength bond within 45 minutes.
- Expands to fill gaps, cavities and uneven surfaces.
- Compatible with a wide range of common substrates.
- Loading time after approximately 24 hours.
- Resistant to decay, heat, water and many chemicals.
- More economical than standard adhesive materials.

COLOUR

Green

PACKAGING

850ml canister. 12 pieces per box

SHELF LIFE

12 months

STORAGE

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

SUBSTRATE PREPARATION

- The surface 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.
- Tremco suggests undertaking a compatibility test prior to use.

APPLICATION

- Shake the canister vigorously at least 20 times.
- Remove the protective cap from the canister and place the top end into the adapter of the illbruck PU foam gun.
- Spray one bead of illbruck PU033 Adhesive Foam around the perimeter and in the middle of the back side of the approved insulation material.
- Always handle the canister in a vertical position for best results and make sure the valve is pointing downwards.
- Move the panel into place and press firmly to ensure good contact. Hold in position for 2-3 minutes. Heavy panels may require additional support during curing.

CURING

After extrusion, PU033 cures with moisture from the air. The skin formation time is depending 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.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUES
Fire Class	DIN 4102-1	B ³
Application Temperature Range	N/A	-10- +35°C
Density	EN 17333-1	20 - 30 kg/m ³
Tack Free	EN 17333-3	10 Minutes
Cut Time	EN 17333-3	45 Minutes
Thermal Conductivity	EN 12667	36 mW/m.K
Tensile Strength (Dry)	EN 17333-4	89 kPa
Elongation at Break (Dry)	EN 17333-4	17%
Compression Resistance @ 10% (Dry)	EN 17333-4	43 kPa
Shear Strength (Dry)	EN 17333-4	54 kPa
Temperature Resistance (Long Term)	N/A	-40°C - 90°C
Temperature Resistance (Short Term)	N/A	-40°C - 130°C
Water Absorption	EN 1609	0.2kg/m ²

Physical properties, measured under laboratory conditions, 23°C and 50% RH



CHEMICAL RESISTANCE

Resistant to most general chemicals after curing. However please contact a Tremco technical representative if in any doubt.

COVERAGE

A single canister of PU033 is sufficient to bond approximately 5m² of panel. Linear yield per 850ml is 227 linear meters (1 cm bead diameter) according to ASTM C1536.

CLEAN UP

Uncured foam can be removed with the AA290. Cured foam can only be removed mechanically by means of a suitable tool. Ensure surface is solvent resistant before cleaning.

HEALTH & SAFETY PRECAUTIONS

The Safety Data Sheet (SDS) must be read and understood prior to use.

TECHNICAL SERVICE

TREMCO has a team of Representatives who provide assistance in the selection and specification of products. For more detailed information or service and advice, call Customer Service on (02) 9638 2755 or fax (02) 9638 2955.

GUARANTEE/WARRANTY

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

Any information provided by TREMCO in this document in relation to TREMCO's goods or their use is given in good faith and is believed by TREMCO to be appropriate and reliable. However, the information is provided as a guide only, as the actual use and application will vary with application conditions which are beyond our control. TREMCO makes no representation, guarantee or warranty relating to the accuracy or reliability of the information and assumes no obligation or liability in connection with the information. To the extent permitted by law, all warranties, expressed or implied are excluded.

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