

# Tensor<sup>®</sup>

# TC20

## EPS PLUG BUILD FOAM ADHESIVE



**TensorGrip<sup>®</sup> TC20** is a polyurethane foam adhesive developed to provide an efficient solution for large format EPS block bonding in Mould & Pattern building. **TensorGrip<sup>®</sup> TC20** can be used for both adhesion, gap filling or a combination of both in void areas which require CNC machining. **TensorGrip<sup>®</sup> TC20** is also effective for bonding base layer EPS blocks to Pattern sub frame deck materials such as plywood & OSB.

### ADVANTAGES

- Adhesion and gap filling properties.
- Excelent tooling head compatibility.
- Polystyrene and XPS compatible.

### TECHNICAL DATA

#### SUITABLE FOR



Polystyrene



Timber



Insulation

#### COVERAGE

500ml

22ltr

Single-sided

N/A

350m<sup>2</sup>

Double-sided

N/A

N/A

*\*Depending on ambient temperature*

#### APPLICATION



1 Sided

#### OPEN TIME\*\*



Up to 10 mins

#### COLOUR

Green

#### FLASH OFF TIME\*\*\*



1-2 mins

#### SPRAY TYPE



Bead

#### GUN TYPE



Spray Gun - Long Wand Pu Foam

#### HOSE TYPE



S/S Braided Valve

#### ADHESIVE TYPE

PU

CHEMICAL TECHNICAL DATA

<b>Viscosity</b>	4500 CPS
<b>Solids</b>	100%
<b>Skin formation Time</b>	5 - 10 minutes*
<b>Cure time</b>	45 minutes*
<b>System Flammability</b>	Flammable Propellant
<b>Shear adhesion failure temp (SAFT) 100grams</b>	Not determined
<b>Application Temperature</b>	10 - 25 °C
<b>Shelf life</b>	9 months from date of manufacture

HANDLING & STORAGE

- For full handling and storage details consult Safety Data Sheet section 7.
- For optimum performance during use keep the aerosol/canister between 10°C and 25°C.
- Ensure canister is thoroughly shaken/agitated for 30 seconds minimum prior to use.
- When connected, keep valve open and hose pressurised at all times.
- To avoid gun and hose blocking leave connected and under pressure even when canister is empty until ready to connect to new cylinder.
- Do not store below 10°C.
- Do not allow the product to freeze.
- Do not store directly on concrete floor.
- Do not incinerate and keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
- Avoid exposure to direct sunlight and extreme temperatures.
- Do not use in confined spaces without adequate ventilation and/or respirator.
- For full PPE information, consult Safety Data Sheet section 8.

COVERAGE

Foam Bead Green (annotated arrows and measurements for bead size / spacing / perimeter.

m<sup>2</sup> Coverage is based on 30mm linear beads spaced 300mm apart as per typical insulation installation guidelines.



❌ Coverage too light



✅ Correct application = 20 grams/m<sup>2</sup>

SURFACE PREPARATION

Surface preparation is crucial for achieving effective adhesion, make sure that surfaces are clean, dry and free from dirt, dust, oil, loose paint, wax or grease, etc. Any contaminants may affect adhesion.

For best bonding results, the adhesive temperature range should be between 10°C - 25°C. Optimum temperature is 18°C.

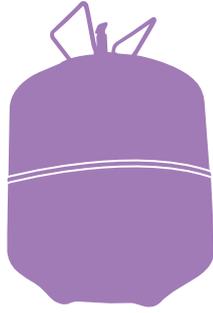
PRE BONDING INFORMATION

- Prior to use, check compatibility by spraying a small test patch of the adhesive on the substrate. This product may degrade some substrates.
- Always test the adhesive to determine suitability for your particular application prior to use in production.
- Consult both MSDS and TDS documents.
- When working with absorbent materials a higher coat weight is recommended.
- ALWAYS READ THE LABEL.

CAUTION

**ALWAYS USE WITH ADEQUATE VENTILATION.** For Full PPE Information Consult SDS (Safety Data Sheet) Section 8. Whenever possible we recommend shaking the canister well before use.

DIRECTION FOR USE



CANISTER

1. Make sure that surfaces are clean, dry and free from dirt, dust, oil, loose paint, wax or grease, etc. 
2. Attach and secure hose tightly onto the spray gun as per the set up guide. 
3. Apply a 30mm bead with a spacing of 300mm between every bead. 
4. Please note that bigger/more beads will reduce overall coverage. 
5. When working with absorbent materials, a higher coat weight and is recommended. 
6. Please note that a higher coat weight will reduce overall coverage. 
7. After applying the beads you can place the insulation boards on top of the beads. 
8. Wait +/- 5 min to allow the adhesive to grab the insulation boards, then you can press the insulation boards into the substrate. 
9. Allow \*\* time for the adhesive to fully cure. 
10. Clean the tip after use with a suitable solvent cleaner to avoid leakages and blockages. 

CANISTER REMOVAL OF ADHESIVE

To remove wet adhesive overspray, apply a solvent based cleaning product to the surface or to a rag and wipe away. Use warm soapy water to remove cleaner residue if required.

CANISTER DISPOSAL



STEP 1.

Lay the empty canister on its side with the valve pointing AWAY from everyone, and well away from sources of ignition.

STEP 2.

Open the canister valve (anti-clockwise) and release any residual pressure.



STEP 3.

Stand canister upright. Use a hammer and brass punch or other non-sparking instrument to puncture the friable disc.

STEP 4.

As long as the user is able to accept responsibility for de-pressurising the canister, it can be disposed of as per your normal scrap metal disposal (subject to local waste restrictions).