

3M Application Profile: Splicing (Heavy Duty Backings)



Worker applies 3M™ Thermosettable Glass Cloth Tape 365 to form a butt splice between heavy fabric rolls.

Application Description:

Butt splicing of glass fiber mat webs commonly used in the manufacturing of asphalt shingles and roofing materials as well as heavy duty fabrics such as carpet. 3M™ Thermosettable Glass Cloth Tape 365 or 3650 Tape is applied by hand over the two jumbo ends. Heat is then applied via an iron. The tape is ironed until the backing sets (turns a light tan) and then is released to go through the accumulator and processing.



Outline indicating tape splice as it passes through a manufacturing process.

Application Benefit(s):

- Customer uses tape to quickly and efficiently make reliable splices on heavy materials
- Eliminates the need for using messy glues and waiting for their cure times

Engineered Industrial Tapes

For General Industrial

Key Application Requirements:

- Aggressively hold materials with a bond equal to or exceeding the tensile strength of the jumbo material
- Reliable splices need to be made quickly (approximately 30–90 seconds) and survive temperatures up to 400°F

Tape Benefits:

- **Fast Application:** Does not require long processing delays waiting for glue to set
- **Minimizes maintenance:** Use of tape eliminates the use of hot melt glue guns, removing the time required to clean and maintain glue equipment
- **Thin caliper/Low profile:** Tapes provide a thinner splice than an overlapping glue splice and a low-profile butt splice minimizes disturbances in roll formation
- **Reliability:** High tensile strength with aggressive adhesive maintains hold through web processing without breaking

Products	
3M™ Thermosettable Glass Cloth Tape 365/3650	
Additional Applications	
Building & Construction	Roof shingle splicing
General Industrial	Carpet & heavy fabric splicing



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