



BOSS 638 Subfloor Adhesive

Date: 20/07/26

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Technical characteristics:

Base	Single component polyurethane
Consistency	Collapsible gel adhesive
Curing system	Moisture cure at room temperature
Curing time (*)	About 4 hours
Skin formation (*)	About 20 minutes
Full strength (*)	About 24 hours
Post expansion	Minimal
Shear strength (wet lumber) (ASTM D3498)	205 psi
Shear strength (dry lumber) (ASTM D3498)	283 psi
Shear strength (frozen lumber) (ASTM D3498)	587 psi
Moisture resistance (ASTM D3498)	316 psi
Temperature resistance	-40 °F to +194 °F +248 °F (up to max. 1 hour)

(*) Measured at 68 °F / 65 % R.H. These values may vary depending on ambient factors such as temperature, humidity and type of substrate.

Product description

BOSS 638 Subfloor Adhesive is a ready-to-use, single component, high strength, fast curing polyurethane adhesive that collapses to a gel immediately after dispensing. It is used for clean, efficient and economical permanent subfloor bonding in building and construction. BOSS 638 Subfloor Adhesive does not contain CFC's or HCFC's.

Product characteristics:

- One can of BOSS 638 Subfloor Adhesive replaces up to 10 quart cartridges of traditional adhesive.
- Saves application time (up to 25%) and money over the use of traditional adhesives.
- Excellent initial bond, even at low temperatures.
- Economical in use due to precise application.
- Can be applied at temperatures between +0 °F and +95 °F.
- Limited post expansion for fast and precise installation of subfloors.
- Substantial space and weight savings compared to conventional PU adhesives, bonding mortars, etc.
- Fast curing.
- Solvent-free.
- Resistant to a variety of solvents, paints and chemicals.
- Does not age or rot, mold and mildew resistant, but not UV resistant.
- Water resistant (not watertight).
- Sticks to wet or frozen lumber.
- Can prevent floors from squeaking.
- Tested according to ASTM D3498

Application:

- Clean, efficient and economical permanent bonding of all common types of subfloor decking.
- Other horizontal construction adhesive applications.

Form of delivery:

Color: Champagne/brown

Packaging: 29 oz aerosol can (12 per box)

Shelf life:

24 months from date of production in unopened packaging with cool (40 °F to 77 °F) and dry storage. Cans must be stored upright to prevent blockage of spray valve. Once opened, keep container tightly closed and use within a short period.

Substrates:

All usual substrates such as plywood, lumber (frozen, wet or treated), OSB, particle board, concrete, metals, masonry, stone and plaster.

Adhesive surfaces must be stable, clean, without bubbles and free of separating agents such as talcum, grease, oils, etc.

Not suitable for use on substrates with a water film or standing water.

Any cement slurries and sinter layers on mineral substrates must be removed mechanically.

Does not adhere to PE, PP, PTFE and silicone.

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All substrates should be tested for suitability with regard to adhesion and compatibility.

Instructions for use:

Prior to using the product, cover all adjacent areas for protection against soiling. In windy conditions, precautions must be taken to ensure that BOSS 638 Subfloor Adhesive cannot contaminate components, objects or persons in the vicinity.

Good ventilation must be ensured for indoor use.

The product is flammable during dispensing.

Wear protective goggles and gloves. Tightly screw the can to the thread in the gun and shake the gun about 30 seconds with the valve pointing downwards so that the contents are mixed well to ensure an optimum adhesive quality and high yield. After extended periods of non-use, the can must be shaken again to obtain the required adhesive quality! With the control knob on the gun, adjust the adhesive bead to the required diameter of about 1/2". (The emptier the can, the more the control knob needs to be opened). The can must be held vertical during application.

1. Apply the adhesive in uniform beads of 1/2" centrally onto the mounting studs. A distance of 0,4 to 0,8 inch must be maintained between the gun nozzle and substrate while spraying.
2. Place the subfloor decking onto the gel adhesive within 10 minutes after dispensing. Do not remove and reapply panels as this will damage the adhesive structure and reduce the adhesive strength substantially. At high temperatures and low humidity in particular, curing can be accelerated by lightly spraying the adhesive bead with water.
3. Once the panels are set, and while keeping pressure, secure the boards additionally with mechanical fasteners.

Application temperature:

Surface: +0 °F to +95 °F

Can Temperature: +40 °F to +77 °F (optimal +59 °F to +77 °F)

If required, slowly bring the can to the optimal temperature by placing in cool or leak water.

Cleaning: With GUN & FOAM CLEANER or SWIPEX prior to curing, subsequently with PU REMOVER or remove mechanically.

Repair option: With BOSS 638 Subfloor Adhesive

Safety recommendations:

Observe the standard industrial hygiene procedures. Wear protective goggles and gloves. Remove cured adhesive mechanically, never remove with a flame.

For further information on product safety and handling, refer to the information on the container.

Standards and approvals:

- ASTM D3498