



Important product- and handling instructions for Vacupor® and Vacuspeed®

Substrate must be clean and levelled

Protect from moisture

Protect from direct sun

Do not saw or cut

Do not drill

Do not walk on

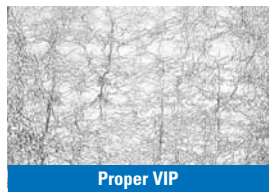
Vacupor® and Vacuspeed® are innovative high performance thermal insulation materials. Please follow the instructions below to guarantee perfect application and performance. Warranty claims are excluded for damages caused by improper handling and application.

1. Transport, storage and delivery control

- ▶ The Vacupor® and Vacuspeed® Vacuum Insulation Panels (VIP) are supplied in special protective packaging, lying flat in cardboard boxes. The transport packaging should only be removed and checked at the installation site, shortly before assembly. VIPs must be protected against all mechanical impacts during transport until it reaches the installation site.
- ▶ The panels must be stored safely – preferably in the original box – in a dry and clean place, protected against moisture, extended exposure to sunlight and mechanical impact.
- ▶ Short-term, unprotected storage on dirty factory floors, storage racks or scaffolds must definitely be avoided.

2. Visual and surface checks before installation

- ▶ Before installation or processing, the VIPs must be checked for loss of vacuum.
- ▶ A proper panel is relatively hard and the barrier film fits tightly, with a crinkly appearance (similar to vacuum packed coffee).
- ▶ A damaged panel is softer and the barrier film is loose with slight bubble formation, without the distinctive crinkled appearance. Please sort out such panels right away and do not use.



3. Important application notes

- ▶ The substrate at the application/installation site must be clean and dry. Uneven surfaces must be levelled before installation.
- ▶ Surfaces must be clean and free of objects with sharp edges or spikes.
- ▶ The highly gas-tight barrier film must not be damaged or removed.
- ▶ Sawing, cutting, drilling etc. of the panels is not permitted.
- ▶ Do not walk on unprotected Vacupor® or Vacuspeed® panels with shoes.
- ▶ The permanent application temperature may not exceed 80 °C. Avoid contact with flames or excessive heat.
- ▶ Keep away from solvents. In case of gluing, use solvent-free installation adhesives only.
- ▶ Take care not to damage vacuum panels during installation, due to excessive tensile respectively compressive forces or by bending.
- ▶ Loss of vacuum leads to worse insulating properties.
- ▶ Joints may cause heat bridges. Dimensional tolerances and joints can be filled and levelled with conventional insulating materials.

Please contact us if you require assistance.