Mataspan®

CC4000

Closed Cell Foam Joint

Product Description

Mataspan® CC4000 is a preformed, compressible foam joint that is impermeable to moisture and provides a watertight, dustproof, airtight, UV stable seal that does not require invasive anchoring for installation. Mataspan CC4000 is made from durable, low density closed-cell foam that adapts to the width of the joint and irregularities of the substrate.

Mataspan CC4000 is supplied in 1.8 meter (6 LF) sticks, engineered for maximum performance in joints from ½" to 4".

Applications

- Primary horizontal expansion joints with vehicular or pedestrian traffic
- Control joints
- Multi-use pathways
- Highway longitudinal and transverse joints
- Precast or retrofit joints
- Joints requiring a watertight seal



Features and Benefits

- Designed for joints ½" up to 4" with movement up to 50% (+/- 25%).
- Unique profile promotes easy installation with less tension and compressive force.
- Accommodates rapid joint movement.
- Closed cell and impermeable to water.
- Made from a monolithic piece of foam that will not delaminate like multilayer products.
- Excellent compression, tension and shear capabilities.
- Non-invasive anchoring
- Single source warranty for Matacryl deck waterproofing to expansion joint locations.

Physical Properties*

Property	Test Method	Value
Foam Color		Gray (Black available by request)
Temperature Stability Range		-40 to 54 ºC (-40 to 130 ºF)
Ideal Storage Temperature		20 ºC (68 ºF)
Tensile Strength	ASTM D3575	74 ± 21 psi
Tear Resistance	ASTM D3575	13.5 ± 20% lbf/in
Density	ASTM D3575	2.3 ± 20%
Elongation at Break	ASTM D3575	275 ± 25%
Water Absorption	DIN 53428	1% volume max
UV Resistance	DIN 18542	Pass
Compression Set	Full cycle tested in an Environmental chamber Through stated temperature Stability range	Will not delaminate due to thermal shock or compression set

** The values shown are based on system testing under laboratory conditions. Different field application conditions or lab equipment configurations may result in system value variances.*

Installation

Material Handling and Installation

Each installation kit includes epoxy (in two parts) and a Flexible Seal cartridge for joint splices. Store Mataspan CC4000 in a dry, enclosed area. Do not keep Mataspan CC4000 in enclosed storage containers where temperatures may exceed 100°F (38°C). Use a sharp flat- or scalloped-edge blade knife to make any cuts.

Use supplied epoxy on joint walls to bond the material in place. Do not allow epoxy to contact the face of the foam stick. The working time of epoxy is approximately 20 minutes. See Application Instructions for details. Apply epoxy to joint faces the length of one foam stick at a time.

Mataspan CC4000 may be joined using heat lamination. See Application Instructions for details.

Recess the foam stick just below the adjacent surface. For applications where snow removal equipment is expected, contact your local FPT Infrastructure representative for application recommendations.

Begin installation at the termination, working to the opposite end using butt seams by inserting one side of the foam stick approximately 1” into the joint.

Do not excessively push or pull the foam stick as this will stretch the foam, resulting in possible damage.

Use your hands or a blunt putty knife to compress the opposite side of the foam stick and slide it into the joint, continuing to compress and work the foam stick into the joint until it is recessed ¼” below the surface of the joint.

Do not install when substrate or ambient temperatures are below 40 °F (4.5 °C) or above 95 °F (35 °C), or when raining or snowing. Epoxy will not cure when the temperature is below 40 ºF (5 ºC).

If ambient storage temperature is below 50 °F (10 °C), store material at a minimum of 68 °F (20 °C) for at least 24 hours prior to installation, regardless of temperature at location of installation.

Clean Up

Remove any epoxy left on the substrate.

Remove all waste materials from the jobsite; do not reuse waste material.

Leave site to the satisfaction of the owner/manager.

The techniques involved may require modification to adjust to job-site specific conditions. Consult your FPT Infrastructure Sales Representative or FPT Infrastructure Technical Services for site conditions and requirements. For further installation details, see our Application Instructions for Mataspan CC4000.

Limitations/ Shelf Life

Not intended for joints in continuously submerged water, in continuous contact with harsh chemicals, or in roofing applications or areas with occupied space.

Six (6) months shelf life when stored in a dry place in original, closed packaging in an enclosed area. Store off the ground and out of direct sunlight.

Warranty

FPT Infrastructure warrants its Products to be free of defects in materials but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, FPT Infrastructure makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE with respect to FPT Infrastructure Products. FPT Infrastructure’s sole obligation shall be, at its option, to replace or to refund the purchase price of the quantity of FPT Infrastructure Products proven to be defective, and FPT Infrastructure shall not be liable for any loss or damage.

Please refer to our website at fptinfrastructure.com for the most up-to-date Product Data Sheets.

NOTE: All FPT Infrastructure Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements

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