

Corrocell

Polyethylene non-extruding, non-absorbent joint filler board

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Product Features

Corrocell is a non-extruding, non-absorbent, semi rigid, closed cell polyethylene board designed as a joint filler material particularly for expansion joints in concrete, block work and masonry.

Corrocell is bitumen free, rot proof and has high compression & recovery therefore accommodating thermal and other structural movements, without the risk of load transfer or reflective cracking through the designed joint.

It also provides support and accurate depth measurement for subsequent joint sealant materials.

Complies to ASTM D 1752 standard.

Typical Uses

Corrocell is typically used to fill expansion and movement joints between concrete, brickwork, blockwork, and masonry where bituminous fibre boards are not recommended.

Corrocell is highly recommended for joints in water retaining or excluding structures, and can also be used to stop vibration or seismic movement transfer around foundations, piles and pile caps, or act as a separating layer between new and existing structures.

Technical Data

Properties	Test Standards	Typical Values
Form		: semi-rigid closed cell heat laminated poly ethylene sheet
Colour		: greyish black
Density		: 33, 40, 60 kg/m ³ (other densities available)
Water absorbtion	ASTM D 3575	: less than 1%
Recovery	ASTM D 3575	: 98% after 50% compression
Compressive strength	ASTM D 3575	: 0.15 N/mm ²
Chemical resistance	ASTM D 1308	: Resistant to ethyl alcohol (50% vol) alkali solution, acid solution, acetone, oils & fats
Weathering test		: no disintegration
Bacteriological attack		: resistant

Note: All values given are subject to 5 - 10% tolerance.

Directions for Use

Preparation

To form expansion joints in new concrete, brickwork, blockwork, and masonry, construct one side of the joint prior to fixing **Corrocell**.

Application

New expansion joints

Cut the **Corrocell** using a sharp knife to the desired length and shape to fill the full depth of the expansion joint.

Before fixing in place, cut a strip off the measured piece to the same depth as the sealant that will be applied to finish the joint, and tack the strip back on to the sheet securely using pins or nails.

Fix the measured **Corrocell** including the tacked strip in place against the completed side of the joint to the full depth, with the tacked strip on the same face as the required joint sealant.

A contact adhesive such as **Corrofix** can be used to spot bond the **Corrocell** in place. Allow the contact adhesive to set before constructing the other side of the joint.

Existing expansion joints

For existing expansion joints we recommend using a **Corrocell** thickness of 10 – 20% greater than the width of the existing joint, to ensure a snug fit particularly when the joint opens.

Simply squeeze the **Corrocell** into the existing joint to the desired level so as to create a slot to the specified width and depth for the subsequent joint sealant.

Corrofix can also be used to spot bond multiple sheets together to create non standard thicknesses.

After the joint has been constructed, we recommend sealing the joint with an appropriate sealant from the **Corroseal** range.

Cleaning

Clean tools and equipment used for **Corrofix** immediately after use with **Corroclean**.

Limitations

Avoid application if the work area may be subject to the onset of rain or moving water.

If the above general application details do not meet with your requirements, please contact Corrotech for a project specific method statement.

Estimating

Corrocell sheet size: 1 m x 2 m sheet in 10, 15, 20, 25, 30 & 50 mm thicknesses, with 33, 40, 60 kg/m³ densities

Corrofix pack size: 15kg pail. Coverage rate approximately 5 - 7 m² per kg (spot bonding will be more economical).

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Sheet sizes may vary from above. Please check for stock and availability of sizes and densities.

All coverage rates given are theoretical and subject to actual site conditions. We recommend trial areas are done to establish practical consumption particularly for adhesives.

Health & Safety

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes.

Do not expose products to fire or naked flames under any circumstances.

Always refer to the product Material Safety Data Sheet (MSDS) for full health & safety and handling recommendations.

Storage

Corrocell has a minimum shelf life of 12 months from the date of manufacture.

To maximize shelf life always store products in their original, unopened packaging in a dry environment, away from direct sunlight with a minimum temperature of 10°C.

Damaged packaging, high humidity or extreme temperatures may reduce the shelf life.