FLEXICLAD® PC

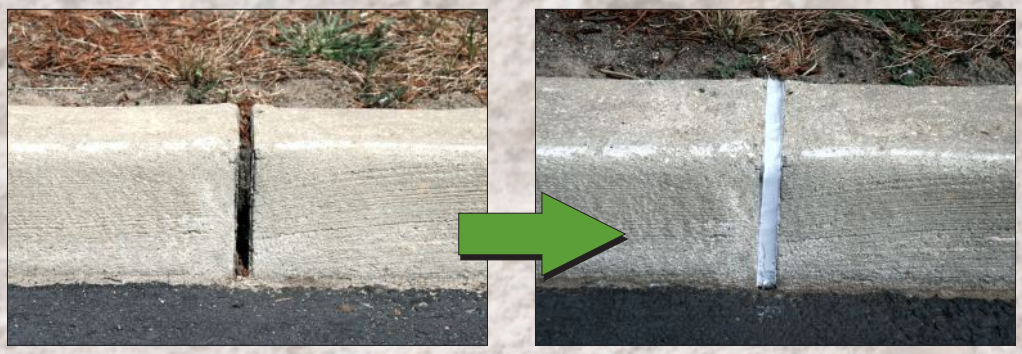
Elastomeric Expansion Joint Compound For Vertical Surfaces

FLEXICLAD® PC **is a two component, 100% solids, trowelable elastomeric polymer composite that has been specifically formulated to seal vertical expansion joints in concrete as well as other cementitious / mineral substrates including tiles, brick, slate, stone, etc. It also bonds very well to metal and wood surfaces.**

FLEXICLAD® PC **requires no primer, bonds to most rigid substrates and cures at ambient temperatures. It has been specifically designed to resist countless freeze / thaw cycles - stretching to well over 600%. It is excellent for sealing between dissimilar materials which may expand and contract at different rates. It also has very good chemical resistance making it the ideal choice for use in secondary containment areas as well as walls in production areas, loading docks, etc.**

FLEXICLAD® PC **incorporates revolutionary polyaspartic technology for sealing expansion joints where durability and flexibility are uniquely important:**

- **Secondary Containment Areas**
- **Bulk Transfer Areas**
- **Production Room Walls**
- **Loading Dock Walls**
- **Vertical Joints On Roof Decks**



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Technical Data

Volume capacity: 500 g unit	28 in^3 / 460 cm^3	
Mixed density	0.036 lbs / in^3 (1.08 gm / cc)	
Shelf Life	Indefinite	
Volume solids	100%	
Mixing ratio	Base	Activator
By volume	5	3
By weight	5	3

Working Life & Cure Times

Ambient Temperature		Working Life	Return to Service	Full Cure
77°F	25°C	1 hr	4 hrs	3 days
86°F	30°C	45 min	3 hrs	2 days

Physical Properties

	Typical Values	Test Method
Hardness - Shore A	60	ASTM D-2240
Elongation	700%	ASTM D-2370
Tensile Shear Adhesion		
Steel	1300 psi	ASTM D-1002
Aluminum	1200 psi	ASTM D-1002
Pull-Off Strength on Concrete	300 psi - (concrete failed)	ASTM D-4541

Chemical Resistance

Bleach	EX	Phosphoric Acid (0-5%)	G
Ethylene Glycol (0-50%)	EX	Sodium Hydroxide (0-50%)	EX
Gasoline	EX	Sulfuric Acid (0-10%)	EX
Hydrochloric Acid (0-10%)	G	Sodium Chloride	EX

EX - Suitable for most applications including immersion.
G - Suitable for intermittent contact, splashes, etc.

Using FLEXICLAD® PC

Surface Preparation - FLEXICLAD® PC should only be applied to clean, dry and well roughened surfaces.

1. Remove all loose material and surface contamination and clean with a suitable solvent which leaves no residue on the surface after evaporation such as acetone, MEK, isopropyl alcohol, etc.
2. Clean / roughen surface by appropriate means. Rigid surfaces (metal, concrete, etc.) should be prepared by grit blasting for large areas and or by using a grinder, needle gun, etc. for small localized areas or unusual shapes.
3. Remove any and all loose dust / debris after roughening the surface.

Mixing & Application - Each application of FLEXICLAD® PC is unique, and it may often be necessary to vary the application methods. If an applicator decides to deviate from these guidelines, it should be done with full knowledge and understanding of how this deviation may affect the nature of the cured FLEXICLAD® PC.

Joint Design: A qualified engineer should determine the appropriate spacing and size of expansion joints based on the coefficient of expansion of the substrate. Joints that are too narrow or spaced too far apart can cause excessive movement of the FLEXICLAD® PC.

When filling an expansion joint, FLEXICLAD® PC should be applied approximately half as deep as it is wide. For example, FLEXICLAD® PC in a 1/2" wide joint should be 1/4" deep. The maximum thickness of the FLEXICLAD® PC should be 1/2". Fill deep cracks or expansion joints first with backer rod. If this convention is not followed, the movement of the substrate will cause excessive deformation of the FLEXICLAD® PC that could lead to failure (Fig. 1).

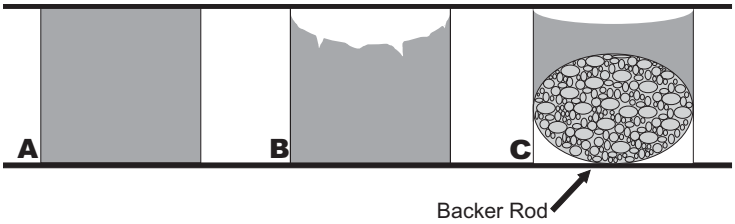

Fig. 1 - The joint in A is filled too deep, and when it is stressed in B, a large amount of material is displaced, causing potential failure. The design of C incorporates a flexible backer rod.

In rectangular joints that are not deep enough to require backer rod or filler, bond-breaking tape should be used to prevent three-sided contact and excessive stress on the joint during expansion and contraction cycles (Fig. 2).

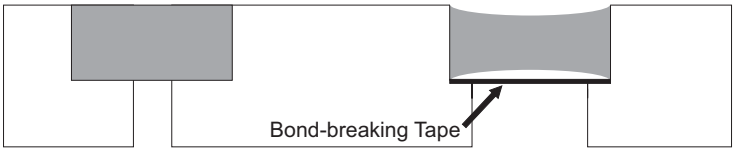

Fig. 2 - In instances in which backer rod can not be used, non-adhesive bond-breaking tape allows the sealant to stretch naturally.

For your convenience, the FLEXICLAD® PC Base and Activator have been supplied in precisely measured quantities. Stir the Base to obtain a uniform color and then simply pour the entire contents of the Activator container into the Base container and, using a spatula, putty knife, or other appropriate tool, mix thoroughly until the FLEXICLAD® PC reaches a uniform streak free color. Use a spatula, flexible applicator or caulk gun to apply the mixed material into the prepared crack or joint.

Cleaning Equipment - Wipe excess material from tools immediately. Use acetone, MEK, isopropyl alcohol or similar solvent as needed.

Health & Safety - Every effort is made to insure that ENECON® products are as simple and safe to use as possible. Normal industry standards and practices for housekeeping, cleanliness and personal protection should be observed. Please refer to the detailed SAFETY DATA SHEETS (SDS) supplied with the material (also available on request) for more information.

Technical Support - The ENECON® engineering team is always available to provide technical support and assistance. For guidance on difficult application procedures or for answers to simple questions, call your local ENECON® Fluid Flow Systems Specialist or the ENECON® Engineering Center.

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