



compriband
do it once, do it right

The Most Advanced Joint Sealant

Permanently Elastic &
Self Expanding

www.compriband.co.id



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TYPICAL PROBLEMS



WHAT IS COMPRIBAND?

Compriband is a preformed self expanding foam sealant produced by impregnating high-density, open-cell polyurethane foam with water-based, polymer-modified asphalt, (also known as bitumen emulsion) hence permanently elastic.

Compriband performs its best on applications where simple thermal and seismic movement are anticipated and stay water tight.



QUICK OVERVIEW

- **Permanently Elastic** maintaining sealing performance under thermal and seismic movement/pressure
- **Over 35 years of proven performance** (equivalent to Emseal in the US, Compriband in Europe)
- **Watertight** when compressed 1:4 or higher
- **Resistant against UV**, fire and petroleum from traffic when compressed



AFTER 12 MONTHS



100% of Compriband intact.

No erosion, no deterioration, no gap



After 12 months, most of hot bitumen came out of the joint and eroded away by traffic.

The joint was mostly filled with dirt and sand.

PUSAT LITBANG LONG-TERM TEST COMPARISON ON JOINT SEALANT PRODUCTS

1. In May 2012, Pusat Litbang (R&D department) under Pekerjaan Umum (PU) conducted long-term performance test on comparison between Compriband and Fosroc (hot bitumen & cold pour) in Jatinangor Sumedang.
2. The objective of the test was to see how the two different joint sealants for rigid pavement will perform in a long term (12 months) environment in the busy traffic area
3. Testing measures include percentage of materials remained since the date of installation, % of water penetration, the amount of dirt and sand through the joint.

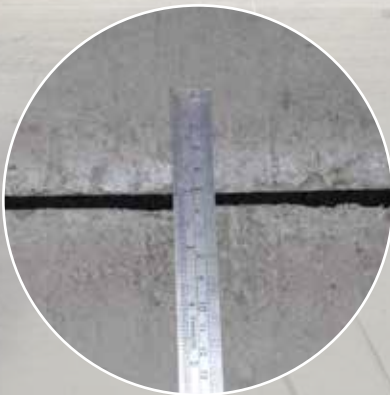


COMMENTS FROM PUSAT LITBANG PU

1. Installation of **Compriband** was not affected by temperature of the pavement, so it can be carried out day and night.
2. During the observation period up to 12 months, the condition of **Compriband** sealant material was described as follows:

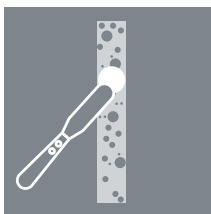
99.2% of the total length of the joint, **Compriband** sealant material was in good condition. Water can not penetrate the sealant and into the joint.

During the observation period up to 12 months, **Compriband** showed the superior performance compared to the other materials.



INSTALLATION

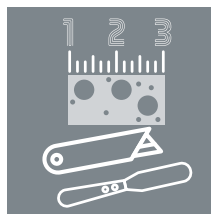
01



Preparation

- Prepare clean even top surface so that Compriband can be easily insert.

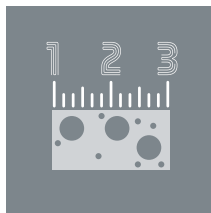
02



Tools

- Use cutter, and ruler.

03



Measurement

- Measure the width and depth of the joint.
- Use the right Compriband size according to the joint width and depth.

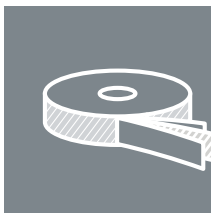
04



Installation Preparation

- Remove Compriband from its package and cut off the strip at the end of the roll.

05



Remove the release liner

- Unroll the tape, then peel off the release liner (backing paper) of Compriband.

RAIN

SHINE

06

Insert Compriband into joint



- Insert the tape into joint, always start from the bottom to top for vertical compriband insertion.
- Do not stretch Compriband during the insertion as it may return to its original length.

07

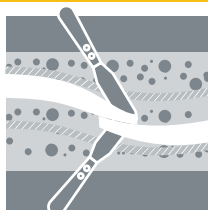
Using tools



- Use putty knives to compress the tape for easier installation.
- Use hot gun to accelerate Compriband expansion.

08

Butt joints



- When joining two strips of Compriband, brushed both ends with bitumen emulsion as an adhesive. For joints wider than 10mm, 45° angle cut are applied for both ends.

09

Intersecting joints



- When joints intersect, the vertical tape must be applied first before the horizontal ones. Add 20mm to the actual horizontal joint length to give best compression to the vertical Compriband.

10

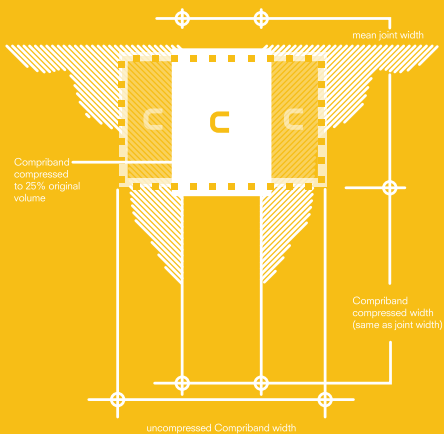
Results



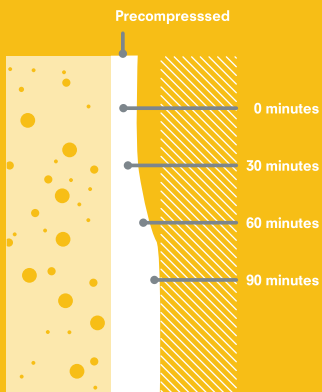
- Installed Compribands will fill the gap automatically within ± 15 min in daytime or ± 60 min at night.

YES

HOW COMPRIBAND WORKS



how comriband works
@ 65°F / 20°C



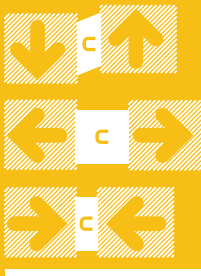
How comriband expands
@ 65°F / 20°C

PRESSURE AND MOVEMENT

After Installation

Installation Temperature

Other Sealant VS compriband	WINTER 	NORMAL TEMPERATURE 	SUMMER 
other sealant NORMAL TEMPERATURE 			
			
other sealant WINTER 			
			
other sealant SUMMER 			
			



Expansion ability:

Allows for vertical / horizontal expansion and contraction.

PRECAST JOINT SEALANT



PT. Pusri - Palembang

Compriband in precast concrete is used to fill the space between precast concrete connection where compriband have a permanent flexibility that holds or accommodate movement between the substrate and keeping from the incoming water.

Compriband advantages:

- Attached to the porous surface.
- Permanent flexibility, so it can follow the movement of the connection.
- Resistant to UV
- Easy to install.

DILATATION



Gedung Wisma 77
Jakarta - Indonesia



Menara Batavia
Jakarta - Indonesia

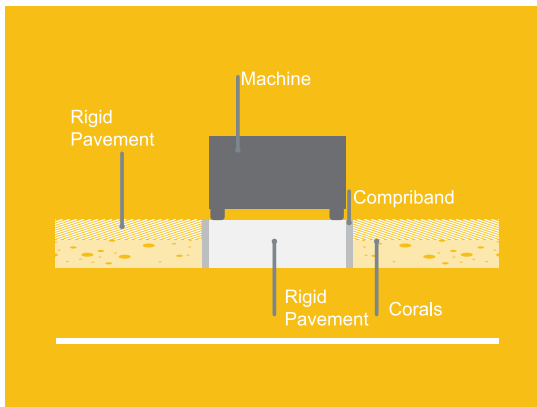
Connection or separator in the building, has a different structure systems. Where the function of the dilatation joint sealant to prevent collisions or friction or cracks in buildings due to the load or force vertical / horizontal.

Compriband serves to reduce the vibration.

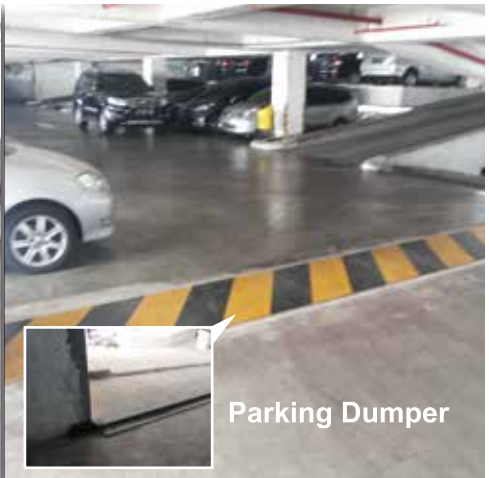
VIBRATION PADS

For this application, Compriband is used to terminate the vibration caused by the movement of machinery or objects.

It is intended to isolate the vibration from the meachinery.



OTHER ADVANTAGES



- Resilient, traffic-durable
- Difficult to vandalize
- Resistant to deicing salts
- Exposed face remains flat regardless of variation and changes in joint width and compression
- Excellent thermal and sound insulating properties
- Vermin proof

TABLE 1: Typical Physical Properties of COMPRIBAND

Property	Value	Test Method
Base Material	Open cell, high density, polyurethane foam	N/A
Impregnation	modified Bitumen Elmulsion	N/A
Color	Black	N/A
Tensile strength	21 psi min (145 kPa)	ASTM D3574 Test E
Elongation - ultimate	150% min	ASTM D3574 Test E
Temperature range High - permanent High - short term Low	185°F (85°C) 203°F (95°C) -40°F (-40°C)	ASTM C711
Softening point	140°F min (60°C)	ASTM D816
UV resistance	Excellent	
Mildew resistance	Excellent	
Resistance to aging	Excellent	
Bleeding -40°F to 180°F (-40°C to 85°C)	None (when compressed down to 20% of uncompressed thickness)	
Compression set 70°C 50% RH after 72hrs	3% max	ASTM D3574 Test D
Thermal conductivity	0.34 Btu. in/hr. ft². °F (0.05 W/m. °C)	ASTM C518
Low temp. flexibility 32°F to -10°F (0°C to -23°C)	No cracking or splitting	ASTM C711
Water vapor transmission at 25% compression	0.011 perms	ASTM C355-64