

# compriband®

Pioneers of

## **EXPANSION JOINT SEALANT TECHNOLOGIES**

*for more than 40 years from GERMANY*



*Produced by :*

**Urecel**

*Distributed by :*



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Compriband is the specified expansion joint material under DIN 18542 BGI in Germany and other European Countries

# THE BRAND YOU CAN TRUST

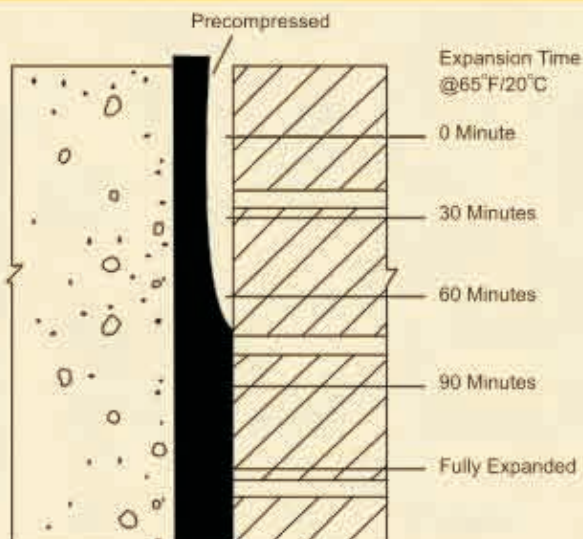
- Compriband is a pre formed flexible polyurethane foam sealing strip impregnated with bitumen. It can be compressed to seal expansion and construction joints.
- Compriband is produced by a process which combines specially prepared acrylics in combination with bitumen and become permanently elastic open cell polyurethane foam.



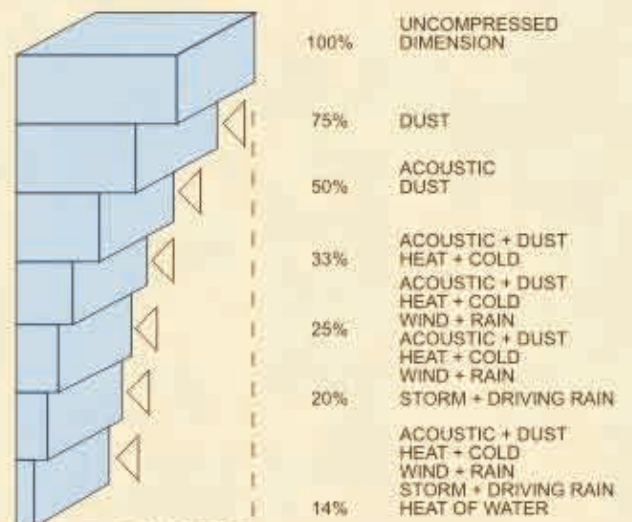
## ADVANTAGES

- Absolute Root Resistance
- No special tools or skills required.
- No mixing; no masking; no pointing; no mess; no bleeding; no staining; no clean-up.
- No concave or convex surfaces. No fillets.
- Eliminates dependence on adhesive bond, cohesion and execution which is essential to success of gunned sealants in moving joints.
- Can be installed in a wide range of weather and temperature conditions.
- Joint face is flat and can be uniformly recessed.
- Has superior compression / expansion and shear capabilities.
- Shelf life is almost unlimited.

## HOW COMPRIBAND WORKS



## THE GREATER THE DEGREE OF COMPRESSION - THE GREATER THE DEGREE OF SEAL



The diagram gives an indication of a few possibilities. Precompressed or vacuum packed, the greater the degree of compression, the better the sealing effect. The Compression diagram illustrates the increase in efficiency of Compriband with increase compression. The correct degree of compression to ensure optimum sealing can be obtained from this diagram.

After Installation

Installation Temperature

Other Sealant VS <b>compriband</b>	WINTER	NORMAL TEMPERATURE	SUMMER
<b>other sealant</b> NORMAL TEMPERATURE 			
<b>compriband</b>			
<b>other sealant</b> WINTER 			
<b>compriband</b>			
<b>other sealant</b> SUMMER 			
<b>compriband</b>			

CIVIL ENGINEERING AREA OF USES

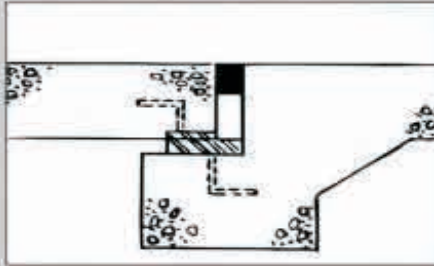
- Expansion Joints : Concrete slabs, retaining walls, etc.
- Roadworks : Bridge expansion joints, paving, concrete runways, compressible filler, and highways.
- Underwater or Underground : Tunels, sewerage and effluent treatment plants.

## COMPRIBAND Solution

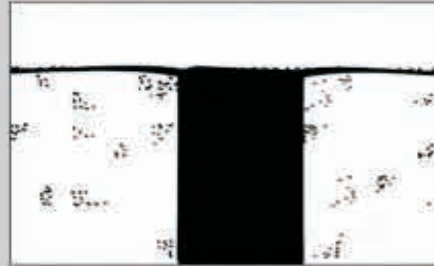
- Compriband can be installed in various weather conditions. There will be no influence due to the difference in weather before and after.
- When the traffic passes, the downward pressure from the vehicle does not affect the condition of Compriband due to its superb elasticity.
- The repetition of the vertical pressure cannot influence the performance of Compriband as it is elastically moves up and down accordingly.
- As the concrete shrinks or expands over a period of time, Compriband can also follow its movement horizontally to seal its gap at all time. The elasticity of Compriband will perform satisfactorily.
- Since Compriband can breathe, it lets the water vapor passes throughly yet it protects from water. It means Compriband can dry all moisture without affecting the performance.
- Gas, oil, dust or water cannot affect the performance of Compriband as compressible filler.

**COMPRIBAND IS THE BEST ANSWER FOR YOUR DELATATION JOINT and COMPRESSIBLE FILLER**

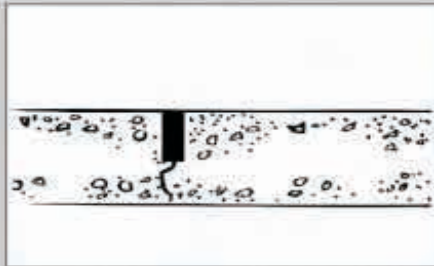
### SAMBUNGAN BERGERAK



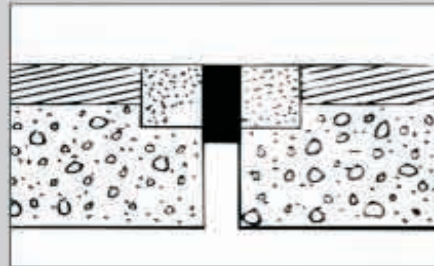
1. Sambungan bergerak pada balok jembatan



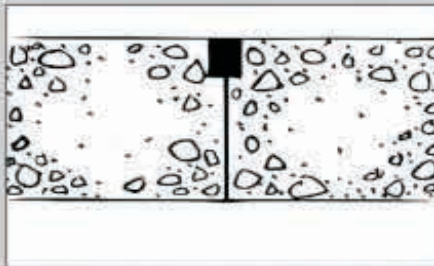
2. Sambungan bergerak pada barrier jembatan



3. Pengisi sambungan pada konstruksi jalan beton



4. Sambungan bergerak pada jembatan



5. Sambunngan pada lantai beton



6. Penutup pada perkuatan lantai ingasi



# Installation Instructions for COMPRIBAND® Black & COMPRIBAND® Grey Joint Sealant Tapes

## 1 Storage and Pre-Installation



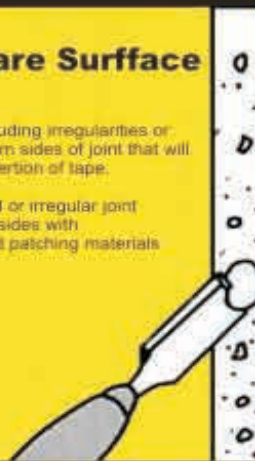
- Ensure joint sides are dry and free of contaminants, dust, previous sealant, oils, grease, etc.
- **Cold Days**  
Store sealant, off the float, inside at above 68° F (20°C). It will recover slower when cold and faster when warm.



- **Hot Days**  
Keep sealant out of direct sun where temperature is greater than 60° F (15°C).

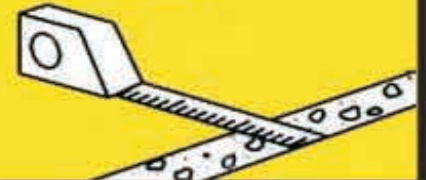
## 2 Prepare Surface

- Remove protruding irregularities or roughness from sides of joint that will hinder the insertion of tape.
- Repair spalled or irregular joint surfaces and sides with recommended patching materials (not epoxy).



## 3 Measure Joint Width

- Measure joint width opening at surface and below surface level to ensure joint sides are parallel and that joint width measures corresponds with specified joint width and Compriband size.
- Select tape size corresponding to actual size of joint to ensure correct compression and therefore watertightness.



## 4 Cut Marking Tape

- Remove reel from clear protective packaging and cut marking tape around reel circumference.
- Unroll reel and cut off required quantity. Cut an extra 1/2" (12mm) for every 3 feet (900mm). The extra material is 'snaked' in the joint as an energy reserve.



## 5 Peel off Self-Adhesive Release Liner

- After cutting tape peel off release liner attached to hot melt, pressure sensitive adhesive backing on tape side.



## 6 Insert into Joint

- Insert precompressed tape into joint.
- Work from bottom of joint upwards.
- Take care not to stretch material as it may subsequently return to its original length leaving gaps.



## 7 Snake Compriband® into joint

- The extra tape (1/2" for every 3 feet or 12mm for every 900mm) is snaked in the joint as an energy reserve.



## 8 Press Compriband® to one side of joint

- Use a putty knife to press the adhesive side of the tape firmly against one substrate, so that it will adhere strongly and hold the material in the joint while it expands.
- A hot air gun may be used to accelerate recovery of Compriband (black tape only).



## 9 Cutting Compriband®

- The ends of the tape should be squared off using a sharp knife.
- Wetting the knife with water will facilitate cutting.



## 10 Butt joints

- Any number of lengths can be joined to make a continuous strip.
- The 45° angle cut ends must be butted tightly together.
- When using Compriband for joints larger than 1/2" (6mm) Compriband contact adhesive should be brushed coated onto each end to be jointed to ensure a tight butt joint and continuity of seal.



## 11 Intersecting Joints

- Run tape in horizontal joint through intersection. Then insert tape in horizontal joints, butting squared off ends tightly against horizontal tape.

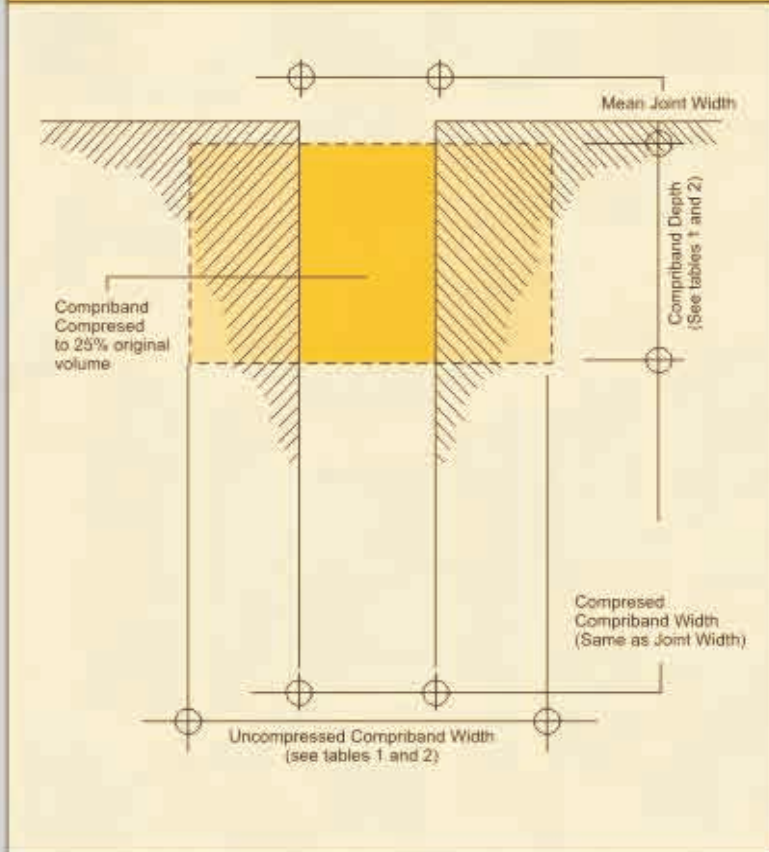


## 12 Cross Joints

- When butting tape at still end head of window or frame, ensure that ends are squared off and butted at 45°.
- DO NOT wrap tape around cross.
- Horizontal lengths as head and sill should be cut an extra 1/2" (12mm) in length to extend beyond the verticals. This will ensure there are no unsealed cross.



**Technical Drawing of Compriband Installation**



**Table 1 - Typical Movement Joints**

Joint Sealant Property Required	Degree of Compriband Compressed Required	Uncompressed Compriband Width Dimension
noise, dust and draft seal	50% of original size	joint width x 2
above properties PLUS heat and cold seal	33% of original size	joint width x 3
above properties PLUS wind and rain seal	25% of original size	joint width x 4

**Table 2 - Horizontal and Vertical Expansion Joints**

Example : Building expansion joints, bridge or ramp joints, etc.

Joint Sealant Property Required	Degree of Compriband Compressed Required	Uncompressed Compriband Width Dimension	Compriband Depth Dimension
for all expansion movement joints both vertical and horizontal where direct head of water against Compriband is less than 2 metre (6 ft)	20% of original size	joint width x 5	joint width x 2 ½

\*Joint depth for severe joint movement applications must be minimum 75 mm (3") or a square section (same uncompressed width and depth dimension).

**TECHNICAL DATA**

**Technical data COMPRIBAND sealing tape**

- Material** : Polyurethane-foam with environmental-friendly modified Bitumen impregnation, absolutely root resistance.
- Bleeding** : None
- Construction class** : DIN 52453, passed
- Contact to other materials** : According to execution about 100, 120, 140, 150 kg/cbm
- Densities** : Elongation at break ISO 1798 : 180,250%
- Fire behaviour** : DIN 4102, class B2
- Heavy rain resistance** : Heavy rain resistance according to DIN 18542 BG2/18055
- Temperature resistance** : -35°C up to +85°C Short-term -40°C up to +100°C
- Weather-proof** : Weather-proof according to DIN 53387
- Elasticity of the comprimation** : According to working temperature at 20C about 130 minutes