

# a.b.e.® Construction Chemicals flexothane CTW Coal Tar Wet

## **CHEMICALLY RESISTANT JOINT SEALANT**

#### **DESCRIPTION**

**flexothane CTW** is a semi-flexible, hard wearing expansion joint sealant based on modified epoxy, polyurethane, tar and inert fillers. Due to its unique composition it is flexible yet hard and is resistant to a wide range of acids and alkalis. **flexothane CTW** will bond to a damp substrate.

#### **USES**

**flexothane CTW** is used for sealing low-movement construction joints in acid resistant construction such as acid brickwork and chemical resistant screeds. Because it will bond to a damp substrate, **flexothane CTW** is ideal for use in not only new construction projects but also in repair and maintenance work. Also suitable for trafficked floor joints where constant wheel contact demands a high shore A hardness sealant.

### **ADVANTAGES**

- High shore A hardness offers protection against arris damage.
- Good chemical resistance, joint sealing in chemical plants, acid lining brick work and chemically resistant screeds.
- Suitable for new concrete construction.
- Good primerless adhesion.
- Will bond to damp surfaces.
- Good flexing properties with excellent adhesion to properly prepared substrates.

## **JOINT GEOMETRY**

In joints of 6 mm to 12 mm wide, the depth of the sealant should equal the width. In joints in excess of 12 mm wide, the sealant depth should be half of the width. The recommended joint width for **flexothane CTW** is 6-9 mm.

#### **SURFACE PREPARATION**

Thorough preparation of joints is essential if a satisfactory seal is to be obtained. For concrete surfaces traces of dust, laitance, mould oil, any previous sealant and all other foreign material must be removed by mechanical grinding, followed by blowing out with dry, oil free compressed air.

TYPICAL PHYSICAL PROPERTIES		
Material	Epoxy polyurethane tar	
Colour	Black	
Coverage	Refer table	
Setting time	4-6 hours dependent upon temperature	
Trafficable cure	24 hours	
Full cure	7 days	
Maximum temperature	Laying 35°C Service 70°C	
temperature	Inert when cured, but do not use in direct	
Toxicity	contact with foodstuff or drinking water	
Water tainting	Will taint potable water	

MECHANICAL PROPERTIES		
Tensile strength	1,6 MPa	
Shore A Hardness	75	
M.A.F.	5%	
Chemical resistance	Resistant to a wide range of acids and alkalis but limited resistance to solvents	
Porosity	Non-porous	

## **CONSUMPTION FOR ESTIMATING PURPOSES**

(no allowance made for waste)

Joint width x depth (mm)	Metres per litre
6 x 6	27,8
9 x 9	12,3
12 x 12	6,9
15 x 8	8,3



#### **PROTECTION OF SURFACES**

Masking tape applied to areas adjacent to the joint will protect them from smearing and enable the joints to be finished to a neat line. The masking tape should be applied after the joint has been prepared, prior to any priming or sealing operating and removed after all finishing and tooling operations have been completed, but before the sealant has cured.

#### **BONDING/PRIMING**

Under normal circumstances, no priming of joints is required. However in joints exceeding 12 mm wide, to improve adhesion, **epidermix 116** can be used as a primer.

#### **BACK UP MATERIAL**

Suitable back up material must be used to adjust sealant depth in the joint to comply with the joint geometry cited in this data sheet. Backing cord is a self-releasing material, but if soft-board is used as the joint filler, a plastic strip bondbreaker must be placed on the filler surface before the sealant is applied. Under a pressure head of liquid, backing cord should be at least 2,5 times greater in diameter than the width of the joint slot.

## **MIXING**

Add entire contents of the activator to the base material and mix thoroughly using a suitable paddle attached to a slow-speed drill. Mix for 4-5 minutes, stopping occasionally to scrape the sides and base of the tin to ensure complete blending of the activator throughout the base.

**NOTE:** If the material is not mixed properly it's performance will be impaired.

#### **APPLICATION**

Application can be by hand operated or pneumatic gun, or by pouring, according to the cross-section of the joint to be filled. It is essential to ensure complete contact between the sealant and the joint surfaces. Tooling of sealants is necessary to avoid air entrapment and to assist in wetting out the surfaces to which the sealant is applied. The sealant should be tooled by pulling a thin metal rod through the sealant to release all air bubbles.

#### **CLEANING**

All tools must be cleaned before the sealant cures with **abe® super brush cleaner**. Cured material can only be removed by mechanical means.

#### **APPLICATION TEMPERATURE**

Surface and ambient temperature must be at least 5°C and rising, ideally between 20°C and 30°C.

#### **MODEL SPECIFICATIONS**

Pitch polyurethane trafficable joint sealant with good chemical resistance. The sealant will be **flexothane CTW**, a gun grade two component, epoxy/polyurethane/tar compound applied in accordance with the recommendations of **a.b.e.® Construction Chemicals**, including **epidermix 116** primer where necessary. The sealant will have a Shore A hardness of 75.

#### **PACKAGING**

flexothane CTW is supplied in 2 litre kits.

#### **HEALTH & SAFETY**

**flexothane CTW** is toxic. Ensure the working area is well ventilated during application and drying. Avoid flames in vicinity. Always wear gloves when working with the material and avoid excessive inhalation and skin contact. If material is splashed in the eye, wash with plenty of clean water and seek medical attention.

Cured **flexothane CTW** is inert and harmless.

#### **IMPORTANT NOTE**

This data sheet is issued as a guide to the use of the product(s) concerned. Whilst a.b.e.® Construction

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# **FURTHER INFORMATION**

Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements. a.b.e.®

Construction Chemicals has a wealth of technical and practical experience built up over years in the company's pursuit of excellence in building and construction technology.



