



**CHEM TRUST**  
Solutions

chemcement

Dynamic Belting Adhesives



## DESCRIPTION

Chem-cement is a two-component, cold-cure adhesive system specifically formulated for conveyor belt splicing and bonding pulley

lagging. Keeping up to date with the most advanced international standards in health and safety, our entire system is completely trichlorethylene free and non-flammable. Our rapid cure system generates early bond strengths (under 2,5 hours) which are unrivaled by competitor products, ensuring that belts can be put back into operation quicker and thereby reducing downtime.

**CHEM-Cement is free of Trichloroethylene and also flame retardant.**

### **SURFACE PREPARATION**

Ensure that the surface is free from any contamination, by washing the surfaces first with a cleaning solvent. Surface must be buffed with a rotary wire brush or P16 grinding disc. Roughen the surface well then clean buffing dust with a clean brush, followed with washing the surface again with a cleaning solvent. Metal surfaces must be rust free. First brush metal surface clean then sandblasted to a 2-mil blast profile or grind with a P16 grinding disc for maximum adhesion. Wash the metal surface with cleaning solvent and apply one coat of Metal Primer and allow drying for 1 hour.

### **ADHESIVE PREPARATION**

Chem Cement is to be mixed well with Chem Cement Hardener supplied in a ratio of 1 Kg adhesive to 65 grams of hardener. Pour hardener into the tin and mix well by stirring, shaking or agitating for 3 min. Pot life of the prepared adhesive is 2 hours depending on the weather conditions.

### **APPLICATION**

When applying the prepared adhesive use a scrubbing motion. Apply a total of three coats of the prepared adhesive to both prepared surfaces of the rubber, metal or textile. Apply the first coat and allow drying for

30 min. Apply the second coat and allow drying for 15 min. Apply the third coat and allow drying to a tacky state (sticky when touched but does not stick to your skin) approximately 3-6 min. In case of over-drying a fourth coat is required. Keep tin sealed between coats. Coverage: 25 sq. ft. per 1 Kg. / per coat by brush coating.

## ASSEMBLING

Bonded surfaces **MUST** be tacky when assembled. Join coated surfaces together and apply pressure, i.e., stitching, roller or press until all air is expelled. Ensure ample time for curing 2 - 4 hours before use.

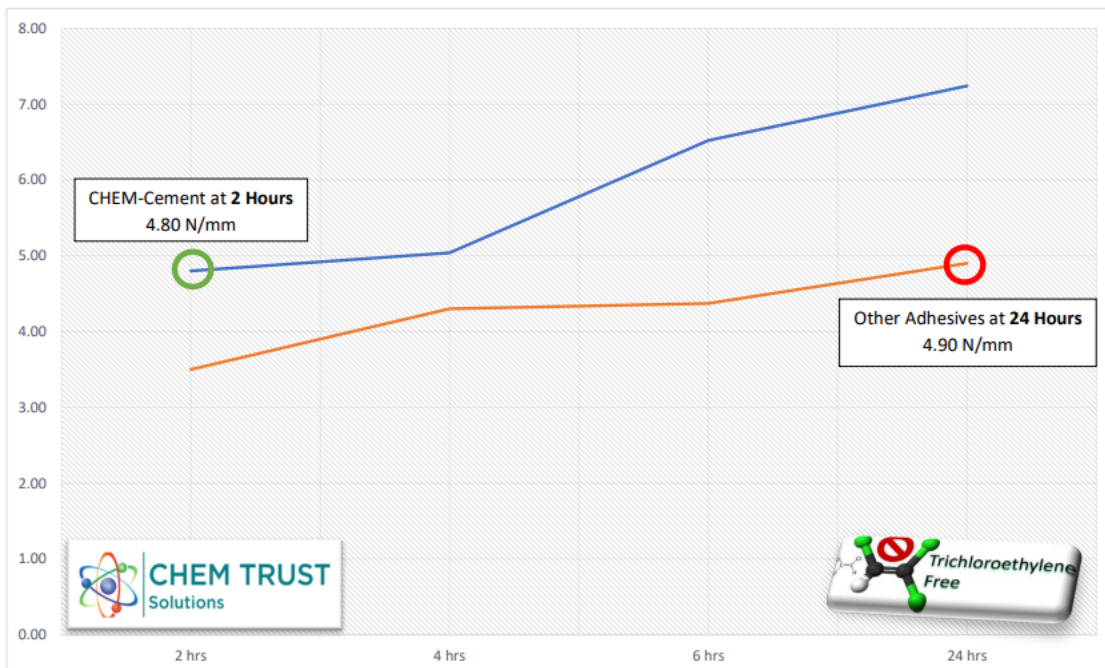
## BOND EVALUATION

Fabric to Fabric bond strengths measured in N/mm peel strength

	<b>2 Hours</b>	<b>4 Hours</b>	<b>6 Hours</b>	<b>24 Hours</b>
Fabric to Fabric	4.80 N/mm	5.04 N/mm	6.52 N/mm	7.24 N/mm

Comparison chart to market related cure times

Values = N/mm	<u>2 hours</u>	<u>4 hours</u>	<u>6 hours</u>	<u>24 hours</u>
<b>CHEM-Cement Fabric to Fabric</b>	4.80	5.04	6.52	7.24
<b>Related Market Adhesives Fabric to Fabric</b>	3.50	4.30	4.37	4.90



## **POT LIFE**

The gel time or working life of mixture is approximately 2 hours at 21° C.

## **COVERAGE**

0.77 sq. m. per 1 Kg. / per coat by brush coating.

## **STORAGE**

Shelf life of unopened containers is 18 months. CHEM Cement and hardener should be stored in a cool dark place.

## **SAFETY**

Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

Harmful to aquatic organisms.

Please refer to the product MSDS certification on our website for further information.



<http://www.chemtrust-solutions.com>

