

Thixotropic epoxy resin adhesive

- two-component system
- adhesive for CEMLINE TAPE
- approved for drinking water
- excellent mechanical characteristics
- can be applied horizontally, vertically and also overhead

PRODUCT DESCRIPTION

CEMLINE EP is a solvent-free, mineral filled, two-component epoxy resin adhesive. It consists of CEMLINE EP RESIN and CEMLINE EP HARDENER.

AREAS OF APPLICATION

CEMLINE EP can be used as a general purpose adhesive, as well as for applying CEMLINE TAPE over construction and movement joints (even where movement is significant). CEMLINE EP is chemically inert and stable and can be used in all kind of aqueous environments and drinking water structures.

PROPERTIES

When fully cured, CEMLINE EP is a rigid adhesive. Its pasty consistency ensures good workability even to uneven and overhead surfaces.

SURFACE PREPARATION

The substrate must be sound and widely even, open-pored and its surface free of voids, large cracks or ridges. At the time of application, the substrate must not exceed 4% (content by weight) moisture. Any adhesion reducing substances like bitumen, oil, grease, remains of paint or laitance must be removed by suitable means.

MIXING

Mixing ratio:

RESIN	to	HARDENER	=
1 part (by weight)	to	1 part	=
3 kg	to	3 kg	

The components must be mixed individually before mixing together. CEMLINE EP HARDENER (earth coloured) is then added to the CEMLINE EP RESIN (white) and mixed carefully together with a mechanical mixer (max. 400 rev/min.). The adhesive is ready for application when the mixture exhibits a uniform light brown colour devoid of streaks.

APPLICATION

CEMLINE EP is applied manually by trowel or toothed comb to both contact surfaces of the substrate to be covered with the tape (5 cm on either side of the crack or joint), pressing vigorously to ensure a good bond. Depending on roughness of the surface, layer thickness of CEMLINE EP is approx. 1–2 mm. – When the adhesive and the tape are applied

together, the latter must immediately be pressed into the adhesive to ensure a good bond, and then coated with a further layer of CEMLINE EP on top.

CONSUMPTION

Tape width 200 mm: 0.8–1.1 kg per m of tape
Tape width 150 mm: 0.5–0.8 kg per m of tape

PACKAGING

Unit of 6 kg CEMLINE EP, consisting of
CEMLINE EP RESIN = Comp. A = 3 kg
CEMLINE EP HARDENER = Comp. B = 3 kg

STORAGE

When stored in a dry and frost-free place in unopened, undamaged original packaging, both components have a shelf life of 12 months.

CLEANING

In its cured state the CEMLINE EP adheres strongly to the substrate. For this reason it is important to clean all tools with a solvent before it hardens.

HEALTH AND SAFETY

Please refer to Safety Data Sheet on www.vandex.com.

TECHNICAL DATA					
Properties of single components		CEMLINE EP RESIN		CEMLINE EP HARDENER	
Consistency		pasty		pasty	
Colour		white		earth coloured	
Density	[kg/l]	approx. 1.8		approx. 1.8	
Application properties		CEMLINE EP			
Consistency		thixotropic paste			
Colour		light brown			
Density	[kg/l]	approx. 1.8			
Pot life at 50% rel. humidity		Ambient temperature:	+10 +°C:	+20 +°C:	+30 +°C:
			90–120 min.	40–60 min.	20–30 min.
Application temperature	[°C]	from +10 to +30			
Setting time		Substrate temperature:	+10 +°C:	+20 +°C:	+30 +°C:
		Initial setting:	36–40 h	16–24 h	8–12 h
		Partial load capacity after:	4 d	2 d	24 h
		Full load capacity after:	10 d	7 d	4 d
Final properties		CEMLINE EP			
Bonding strength to concrete	[N/mm ²]	>3			
Bonding strength to steel	[N/mm ²]	18–24			
Modulus of elasticity	[N/mm ²]	10'000–12'000			
Compressive strength	[N/mm ²]	75–80			
All data is averaged from several tests under laboratory conditions. In practice, climatic variations such as temperature, humidity, and porosity of substrate may affect these values.					

The information contained herein is based on our long-term experience and the best of our knowledge. We can, however, make no guarantee since for a successful outcome, all circumstances in an individual case must be taken into consideration. Indications of quantities required are only averages which in certain cases might be greater.



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