

# CIPADITE® 25

## EPOXCRETE LV

*Fast Setting epoxy injection adhesive*

### DESCRIPTION

CIPADITE® 25 is a 100% solids two component , low viscosity fast setting epoxy adhesive. Its low viscosity and self leveling properties allow CIPADITE® 25 to penetrate into the concrete to form a high bond strength and to properly fill the voids in the surface. Its rapid setting characteristics make it an ideal product for crack injection at either low pressure or high speed, depending upon crack width, depth and temperature.

### WHERE TO USE

CIPADITE® 25 is primarily designed for injection of cracked concrete, fissures or voids in concrete or rock or other structural materials. structural bonding and anchor bolt grouting.

### BENEFITS

- \$ 100% solids, zero VOC' s
- \$ Fast curing, even in cold, damp and adverse conditions
- \$ low viscosity allows for maximum penetration into small hairline cracks and fractures
- \$ moisture insensitive; high resistance to blush
- \$ cures down to 7°C (45°F)

### PROPERTIES (Tested @ 23°C (74°F))

Mix Ratio, by Volume .....	2 parts A:1 part B
Viscosity (Mixed) .....	400 cps
Solids Content .....	100%
Pot Life.....	12 minutes
Initial Cure .....	3 hours
Tensile Strength .....	34MPa (4931 psi)
ASTM D638 (7 days)	
Tensile Elongation .....	1-4%
ASTM D638 (7 days)	
Compressive Strength .....	58MPa (8412 psi)
ASTM D695 (7 days)	
Color after Cure.....	Straw Yellow

The above information is representative of actual production runs. Independent test results may vary from the above by approximately ? 10%.

### APPLICATION

#### SURFACE PREPARATION

Cracked surfaces should be clean and free from coatings or contaminants which could prevent proper adhesion. If cracks are large, loose material should be removed. Use CIPADITE® GEL 15 (Epoxycrete LT Gel) to grout injection ports in place and to seal other areas of crack.

#### MIXING

This product should be mixed and placed using automatic injection equipment. Mix CIPADITE® 25 Resin and Hardener with a mixing paddle attached to low speed (400-600 rpm) heavy duty electric drill. Inject the mixed material with a suitable pump or gun(Alemite) or hand-held cartridge. Use up the fresh mix as soon as possible and always within the indicated "Pot Life".

#### APPLICATION

Clean cracks, with high pressure water jet, or by blowing them out with compressed air, free of oil. Optimum crack width varies from 0.25 mm to 6 mm. There are three basic methods of injection grouting: gravity, pressure and by machine. The gravity method for horizontal surfaces consists of penetrating the cracks by gravity flow. Compressed air or manual pressure and automatic machine injection methods, inject CIPADITE® 25 into cracks while maintaining a constant pressure.

Injection entry points are selected and flanged nipples, polyethylene one-way valves or tapes are set in place. Insertion holes drilled for special ports must be cleaned to avoid blocking the cracks. Seal the surface of the crack between inlets and also around the injection entries with CIPADITE® GEL 15 (Epoxycrete LT Gel).

The distance between two injection points may vary between 15 to 50 cm, or 1 to 1 ½ times the depth of the crack. Prior to injection, blow through the entry ports in succession to ensure that the sealed cracks are free and ready for injection.

In vertical cracks, start injection points at the lowest point and continue until the injected adhesive flows out of successively higher points while closing off the lower ones. After cure, use a grinder to remove the sealing compound and refinish the surface.

#### **LIMITATIONS**

- \$ do not use where crack is filled with water
- \$ cracks to be injected should be dry for maximum bond
- \$ minimum recommended curing temperature is 7°C (45°F)

#### **COVERAGE/YIELD**

Crack injection volume requirements vary widely with the surface porosity, crack width, depth and temperature.

#### **STANDARDS**

CIPADITE® 25 was manufactured to comply with ASTM C881, Type IV, Grade 1, Class A, B, C.

#### **PACKAGING**

3.79L (1 U.S. gal) - 4.5 kg (9.9 lb)  
450ml Cartridges

#### **CLEAN UP**

Clean all equipment with CPD® Xylol before epoxy hardens. CPD® Xylol is flammable solvent. Read the M.S.D.S. before using.

#### **STORAGE**

Store in a heated warehouse. Storage at temperatures below 4.5°C (40°F) may cause the resin to crystallize.

#### **SHELF LIFE**

Two years from date of manufacture if kept in original unopened containers under normal warehouse conditions.

#### **SAFETY PRECAUTIONS**

Consult Material Safety Data Sheet (M.S.D.S.) for specific instructions. MSDS # 92, 100

#### **WARRANTY**

The recommendations made and the information herein is based on our own and independent laboratory experience, and is believed to be accurate under controlled conditions. However, no warranty or guarantee of accuracy is made because we cannot cover every possible application of product nor

anticipate every variation encountered in weather conditions, job-conditions, methods used and types of surfaces on which the product is applied. The users shall make their own tests to determine the suitability of such products for any particular purpose.

CPD® makes no warranties with respect to this product, expressed or implied, without limitation, the implied warranties of merchantability or fitness for a particular purpose.

CPD®'s liability shall be limited in all events to supplying sufficient product to re-treat and/or repair the specific area to which CPD® product has been applied. CPD® reserves the right to have the true cause of any difficulty determined by accepted test methods. CPD® shall have no other liability, including liability for incidental, consequential or resultant damages, however caused, whether due to breach of warranty, negligence, or strict liability.

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