CEMTEC EP SEALANT

FLEXIBLE INDUSTRIAL FLOOR JOINT FILLER

DESCRIPTION

CEMTEC EP SEALANT is a two component, semi-rigid epoxy for filling control and construction joints in industrial concrete floors. This product supports the joint edges and reduces spalling of the edges caused by wheel traffic. **CEMTEC EP SEALANT** has been designed for use under ACI 302, Section 4.10 recommendations for epoxy joint fillers.

FEATURES / BENEFITS

- Semi-flexible formula that allows for limited temperature and humidity movement of concrete.
- Tough performance reduces floor joint repairs and maintenance
- Suitable for filling cracks in older floors to reduce the rate of deterioration

DIRECTIONS FOR USE

Surface Preparation - New concrete must be a minimum of 90 days old. The joint must be clean and sound. All oil, dirt, debris, paint and any other material that may be a bond breaker must be completely removed with a vaccum cleaner or pressure washing.

All joint facings must possess an open surface texture with all curing compounds and sealers removed.

If this product is used for filling floor cracks, the cracks should be routed out and cleaned before filling. Ideally, all edges will be squared.

Joint Backing - CMCI recommends the full depth of the joint or crack be filled with **CEMTEC EP** SEALANT for proper load transfer. If backing rod is used to seal the bottom of the crack or joint, **CEMTEC EP SEALANT** must be placed at a 25.4 mm minimum depth.

Priming - **CEMTEC EP SEALANT** does not require a primer before application.

Placement - After the liquids are thoroughly mixed, pour the mixed material into the joint, filling it approximately 2/3 its full depth. Allow the joint sealant to settle and then complete filling, within 1 hour to the level of the floor. Use all material rapidly due to the short pot life. **CEMTEC EP SEALANT** requires sufficient joint sidewall area contact to function properly. Joints should be filled for their full depth. Avoid the use of backing rod, sand or other fill material for the purpose of reducing volume.

Finishing - Joints should be overfilled and immediately cut with a razor knife or ground flush with the floor. This has to be done immediately after filling the joint. If **CEMTEC EP SEALANT** has completely hardened, a heat flame may be used to soften the material for easier removal.

Curing - CEMTEC EP SEALANT requires no special curing conditions. The product will cure within 24 hours of placement @ 21°C. Lower temperatures will slow the curing rate.

SPECIFICATIONS / COMPLIANCES

- CEMTEC EP SEALANT is a semi-flexible joint filler designed to comply with ACI 302 recommendations regarding control and construction joints.

TECHNICAL INFORMATION

Typical Engineering Data

Pot life at 24°C ..... 15 minutes
Tack free time 24°C ..... 12 hours

Tensile Strength , ASTM C-109
7 days .... 690 psi (4.6 MPa)

Elongation , ASTM D-638
7 days. 55%

Water Absorption , ASTM D-638
72 hour immersion 1.1%
Shore D Hardness
ASTM D-2240 55
Shore A Hardness .... > 100
Chemical Resistance 72 hours 24°C
$CaCl_2$(10%)..... .....Excellent
Caustic (10%)..... .....Excellent
Muriatic Acid (10%)..... .....Excellent
CEMTEC EP SEALANT will accept normal traffic in 24 hours if curing temperature is 21°C and relative humidity is 50%. Expect complete cure within one week.

Appearance - **CEMTEC EP SEALANT** is a two part epoxy product. The Part A is the resin and is pigmented white. The Part B is the hardener and is pigmented black. When the two parts are mixed together, the result is a gray color typical of concrete. The user should expect some batch to batch variation in color.

COVERAGE	Contact CMCI technical dept
PACKAGING / YIELD	**CEMTEC EP SEALANT** is a two part epoxy product packaged in 1 gal (3.8 liter) kits which contain both the hardener and the resin. The premeasured mix ratio is 1:1.
COLOR	Contact CMCI technical dept

CLEAN-UP

Tools, equipment and general clean-up can be done with CEMTEC SOLVENT, xylol or toluol.

MIXING

CEMTEC EP SEALANT is a two part product and requires mixing. Premix each part separately before combining the materials. (Note : if a "skin" has formed on the Part B material, remove and discard before mixing. Next pour all of theprescribed Part B hardener into the Part A resin and mix with a mechanical mixer and prop for 2-3 minutes. Make sure that the sides of the can are scraped to ensure that all of the resin and hardener are thoroughly mixed.

PRECAUTIONS / LIMITATIONS

- Based on ACI 302 recommendation, epoxy joint fillers should be applied 3 to 6 months after construction, the later the better.
- Do not use CEMTEC EP SEALANT as an expansion joint sealant.
- Use only at temperatures above 4°C
- Contact surfaces must be clean and dry
- Improper joint design will affect performance.
- Solvents used for clean-up are flammable, keep away from heat, sparks, open flame, or lighted cigarettes.

ESTIMATED COVERAGE:

Linear meter/Gallon

JOINT WIDTH	JOINT DEPTH			
	25mm	38mm	51 mm	63 mm
3.2	47	31	23	9
4.8	31	21	16	12
6.4	23	16	12	9
9.5	16	10	8	6

Quality Statement

CMCI manufactures its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with quality Management System described in ISO 9000 series

CMCI provides a comprehensive technical support system for its full range of high performance construction products CMCI also offers full technical field support to consultants, Architects, contractors, applicators and End Users.

The Technical Specification information and recommendations given are based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product CMCI reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of CMCI no guaranty and or responsibility is assumed on the performance of work completion executed with use of our products.