

CEMTEC 227 CTP



COAL TAR PITCH MODIFIED POLYURETHANE JOINT SEALANT

DESCRIPTION

CEMTEC 227 CTP is a two part, self-leveling or un-grade, coal tar pitch modified polyurethane sealant which cures to a firm, flexible tear-resistant rubber. It is highly resilient and has excellent recovery characteristics, even after extended periods of compression or elongation.

PRODUCT DESCRIPTION

Composition

Coal tar pitch modified polyurethane based joint sealant.

FEATURES & BENEFITS

- Two components and cure chemically regardless the joint dimension.
- Shows high resistance to sewage chemicals, soil salts, sea water and others.
- Water resistance and water tight so can be used in sea water tanks, manholes, septic tanks, and other similar areas

BASIC USES

For sealing movement joints in building and civil engineering construction above or below ground. For subways, retaining walls, sea walls and sewage treatment plants.

STANDARD

Federal Specification TT -S-227e

CHEMICAL RESISTANCE

Tested as per ASTM D543 - 1995

| | |
|-----------------------|-----------------|
| Sulfuric Acid 30% | - Resistant |
| Hydrochloric Acid 10% | - Resistant |
| Sodium Hydroxide 10% | - Resistant |
| Motor Oil | - Resistant |
| Hydraulic Oil | - Resistant |
| Hydrogen Peroxide 30% | - Not Resistant |
| Gasoline | - Not Resistant |
| Sea Water | - Resistant |
| Cleaning Solution | - Resistant |
| Salt Water | - Resistant |

INSTALLATION

Joint Design

Suitable for all properly designed joints following accepted engineering practices. Joint width must be a minimum of 4 times the anticipated movement.

Surface Preparation

All joints must be absolutely clean. Sandblasting is recommended for concrete joints

All curing compounds, old caulks, grease, waterproofing compounds, etc., must be removed. Polyethylene rod or polyurethane foam is recommended as a joint filler and backup material. Fillers treated with bituminous products, grease or oil, should not be used. Where present, they must be completely removed or separated by vinyl tape or polyethylene film. All joints must be primed with the appropriate ELASTO-POXY PRIMER.

Application

Mechanically mix the A & B Components together thoroughly using a slow speed drill and jiffy type mixing blade. The gun-grade type sealant may be applied using a bulk caulking gun, had-pressure-type. The self-leveling type may be poured directly from container. Tool the sealant firmly into the joint to assure good contact of the sealant into the sides of the joints.

MAINTENANCE

If **CEMTEC 227 CTP** is damaged, and the joint has not been contaminated, It can be repaired by cutting out that part and resealing it with **CEMTEC 227 CTP**.

LIMITATIONS

Containers of Component B that have been opened must be used immediately, as it is a moisture-sensitive material and sets up when exposed to air. All concrete surfaces must be completely free of foreign matter and primed with ELASTO-POXY PRIMER. Do not apply at temperatures below 500 F (10°C).

TECHNICAL SERVICES

Technical assistance can be obtained by contacting:
CMCI
P.O. Box 7137,
Dammam

| | |
|------------------|-----------------------------|
| COVERAGE | Contact CMCI technical dept |
| PACKAGING | Available in 4 liter kits |
| COLOR | Available in Black |

TECHNICAL DATA

| PROPERTY | TEST METHOD | RESULTS |
|--|-----------------------|---------------------------------|
| Consistency | Fed. Spec. TT -S-227e | |
| Type I | -- | Self-leveling/Pourable |
| Type II | -- | Non-Sag/Gungrade |
| Potlife at 77°F (25°C) | -- | 2 hrs |
| Tackfree Time at 77°F (25°C), 50% R.H. | Fed. Spec. TT -S-227e | 10 ± 2 hrs |
| Service Temperature Range | -- | -40°F (-40°C) to 180°F (82.2°C) |
| Cure Time at 77°F (25°C), 50% R.H. | Observed | 48 - 72 hrs |
| Hardness (Shore A) | ASTM D-2240 | 30 ± 5 |
| % Elongation | ASTM D-412-98 | 400% ± 10% |
| Tensile Strength | ASTM D-412-98 | 200 psi ± 10% |
| Tear Strength | ASTM D-624 | 65 pli ± 10% |
| | -- | |

WIDTH OF JOINT

| | | 1/4" | 3/8" | 1/2" | 5/8" | 3/4" | 7/8" | 1" |
|----------------|---|-------|-------|-------|-------|-------|-------|----|
| DEPTH OF JOINT | 1/4" | 308 | 205 | 154 | 123 | 102 | 88 | 77 |
| | 3/8" | ..... | 136 | 102 | 82 | 68 | 58 | 51 |
| | 1/2" | ..... | ..... | 77 | 61 | 51 | 44 | 38 |
| | 5/8" | ..... | ..... | ..... | 41 | 39 | 35 | 30 |
| | 3/4" | ..... | ..... | ..... | ..... | 34 | 29 | 25 |
| | 7/8" | ..... | ..... | ..... | ..... | ..... | 25 | 22 |
| | 1" | ..... | ..... | ..... | ..... | ..... | ..... | 19 |
| | Linear Feet Per Gallon of CEMTEC 227 CTP | | | | | | | |

WIDTH OF JOINT IN METRIC MEASUREMENT

| | | 6.4 | 9.5 | 12.7 | 15.9 | 19 | 22.2 | 25.4 |
|----------------------|--------------------------------|-------|-------|-------|-------|-------|------|-------|
| DEPTH OF JOINT IN MM | 6.4 | 24.8 | 16.5 | 12.4 | 9.9 | 8.2 | 7.1 | 6.2 |
| | 9.5 | ..... | 10.9 | 8.2 | 6.6 | 5.5 | 4.7 | 4.1 |
| | 12.7 | ..... | ..... | 6.2 | 4.9 | 4.1 | 3.5 | 3.0 |
| | 15.9 | ..... | ..... | ..... | 3.9 | 3.3 | 2.8 | 2.4 |
| | 19 | ..... | ..... | ..... | ..... | 2.7 | 2.3 | 2.0 |
| | 22.2 | ..... | ..... | ..... | ..... | 2.0 | 1.8 | ..... |
| | 25.4 | ..... | ..... | ..... | ..... | ..... | 1.5 | ..... |
| | Linear meters per liter | | | | | | | |

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.

"High Quality Construction Chemicals"
CONSTRUCTION MATERIAL CHEMICAL INDUSTRIES
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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.