

Polysulfide Epoxy Coat T-48 Chip Seal

T-48 Chip Seal is a premium quality, two component, polysulfide epoxy based sealer used for restoring concrete bridges and other pavements. It will reduce the ingress of moisture, chlorides, salts, and other corrosion inducing substances. It will add less than 2.0lb/ft² (9.8kg/m²) of dead load which is an important consideration for older structures.

Application Procedure

Transpo T-48 Chip Seal is applied using a Broom-and-Seed method. It is recommended that the ambient and deck temperature be between 50°F - 100°F (10°C - 38°C) at the time of application. There are four steps involved in the application process.

Surface Preparation: It is strongly recommended that all surfaces that are to receive T-48 Chip Seal be thoroughly clean and free of all dirt, grease, rust and other contaminants that might interfere with the proper adhesion of the polymer overlay. All damaged or deteriorated concrete shall be removed, cut back to sound concrete, and repaired with appropriate materials and methods. All surfaces, including those that are patched, must be thoroughly shot-blasted or sandblasted to ICRI concrete surface profile (CSP-5). To verify that the surface preparation is adequate, ASTM C1538 or ACI 503R tensile adhesion tests should be performed.

Mixing: Transpo T-48 resin comes in two components (T-48A resin and T-48B hardener). Thorough and complete mixing of these two components is vital for uniform curing and performance. Mix parts A & B together in a 2:1 volume for 2-3 minutes using a Jiffy mixer (or equal) powered by low speed (400-650 rpm) electric drill until blend is uniform.

Resin Application: Temperature of T-48 resin must be above 50°F (10°C) for mixing. T-48 resin is applied using 1/8" (3mm) notched squeegees at the rate of 0.025gal/ft² (1L/m²).

Broadcast: Immediately after resin application, broadcast aggregate can be applied at approximately 1.5lb/ft² (7.3kg/m²) or until refusal. Standard trap rock (having a Mohs Hardness of 6 or above) or any other similar material can be used as a cover aggregate. Broadcasting can be accomplished either by hand or by the use of numerous spreading machines. After cure, the excess aggregate can be swept off for reuse.

Packaging

| | Part A | Part B |
|------------------------|-----------|-------------|
| 55 Gal Drum | | |
| Gross Weight lb (kg) | 537 (244) | 430 (195) |
| Net Weight lb (kg) | 500 (227) | 393 (178) |
| Nominal Volume gal (L) | 50 (189) | 50 (189) |
| 5 Gal Pail | | |
| Gross Weight lb (kg) | 53.1 (24) | 42.4 (19.3) |
| Net Weight lb (kg) | 50 (23) | 39.3 (17.8) |
| Nominal Volume gal (L) | 5 (19) | 5 (19) |

Properties*

| Property | Unit of Measure | Test |
|----------------------------------|--|--------------------|
| Neat Resin | | |
| Mix Ratio | 2:1 by volume | |
| Viscosity | 1200 - 1600 cps (MPa-sec) | Brookfield |
| Density | 8.8lb/gal (1.05g/mL) min. | ASTM D2849 |
| Pot Life (@ 70 °F) | 15 - 30 minutes | AASHTO T237 |
| Flash Point | 200°F (93°C) min. | ASTM D1310 |
| Solids Content | 100% | ASTM D1644 |
| Compressive Strength** | 5000 psi (34 MPa) min. | ASTM C579 Method B |
| Tensile Strength | 1800 psi (12 MPa) min. | ASTM D638 Type I |
| Tensile Adhesion | 250 psi (1.7 MPa) min. | ACI 503R |
| Tensile Elongation | 45% min. | ASTM D638 Type I |
| Shore D Hardness | 60 min. | ASTM D2240 |
| Chip Seal | | |
| Bond Strength | 100% substrate failure | ACI 503R |
| Coefficient of Thermal Expansion | 20-24 x 10 ⁻⁶ in./in./°F (11-13 x 10 ⁻⁶ mm/mm/°C) | ASTM C531 |
| Freeze-Thaw Resistance | Pass (no change) | ASTM C666 |
| Wet Skid Resistance | 50 minimum | ASTM E274 |

* To be used as general guidelines only

**Samples should be made using 2.75 volume parts 20-30 sand per ASTM C778, No. 20 to No. 30 sieve to one volume part of mixed epoxy

Storage

Transpo T-48 should be stored in tightly sealed containers in a dry location and at normal room temperatures 50°F - 85°F (10°C - 29°C). Some epoxy materials may crystallize during storage at low temperatures. The epoxy can be used once it has reached desired application temperatures.

Caution

Transpo T-48B (hardener component) contains an alkaline amine. Prolonged or repeated contact may cause sensitivity in some individuals. It is recommended that all persons involved in mixing and application wear protective clothing such as goggles, rubber boots and rubber gloves. As with all chemicals, read MSDS prior to use.

Warranty

The following warranty is made in lieu of all other warranties, either expressed or implied. This product is manufactured of selected raw materials by skilled technicians. Neither seller nor manufacturer has any knowledge or control concerning the purchaser's use of either product and no warranty is made as to the results of any use. The only obligation of either seller or manufacturer shall be to replace any quantity of this product that proves to be defective. Neither seller nor manufacturer assumes any liability for injury, loss, or damage resulting from use of this product.

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