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MASTEREMACO® T 2900

Fast Curing Elastic PU Mortar

DESCRIPTION

MasterEmaco T 2900 is a two component polyurethane with a specialty aggregate, 100% solids material for use in exterior construction environments. **MasterEmaco T 2900** is a unique mixture which monolithically bonds the expansion joint to the deck, creating a waterproof system. **MasterEmaco T 2900** absorbs traffic impact loads and evenly disperses them into the deck, while allowing the system to flex with deck loads. It is resistant to ozone, deicing chemicals, and abrasives. The addition of heat is not required to increase flow or cure the material, and it will self-level in the blockout.

RECOMMENDED FOR

- MasterEmaco T 2900 Membrane Systems
- Aladin Structural Sealing System
- StripSeal Expansion Joint System
- Concrete Spall Repairs
- Whenever void filler is required

FEATURES AND BENEFITS

- **Rapid Installation**
Easily mixed and cures in under 2 hours.
- **Proven Durability**
Thousands of feet of successful installations in various climate conditions on a wide range of structural applications.
- **Versatility**
Can be installed on new or existing structures and will bond to concrete, steel, and aluminum surfaces.
- **Colorability**
Can be color matched to seal (special order).

PREPARATION

The concrete substrate must be clean (free of dirt, dust, coatings, rust, grease, curing compounds, laitance, and other contaminants), sound and durable. **BASF** recommends a minimum of 14 days open cure time on normal Portland cement concrete prior to application of **MasterEmaco T 2900**. Horizontal and vertical surface preparation methods include grinding, chipping, and scarification, but are highly dependent on proper field techniques. Sandblasting is the most reliable, preferred, and recommended method. Acid etching is NOT recommended.

- Durable Concrete - Sound and durable concrete should have a minimum cap pull-off strength of 200 psi per ACI 503R, Appendix A.
- Unsound Concrete – Loose, weak, spalled, deteriorated, and/or delaminated concrete should be removed to sound concrete and repaired prior to replacement of this product.
- Cracks – prior to placement of **MasterEmaco T 2900**, repair cracks with a structural epoxy injection adhesive.
- Proper substrate preparation is essential to achieving a successful **MasterEmaco T 2900** installation.

INSTALLATION

- Apply primer to surface of the properly prepared concrete prior to installation of **MasterEmaco T 2900**. There must be no visible moisture prior to the application of the primer. Primer can be brush applied. Do not allow primer to dry prior to placement of **MasterEmaco T 2900**.
- Thoroughly premix (20 seconds) Part B separately before purring entire contents of Part B into a clean 5 gallon container. Add Part A and mix both components with a power mixer equipped with a butterfly paddle for approximately 30 seconds, or until well blended.
- Slowly add the aggregate component to the liquid material and mix until all the aggregate is coated (approximately 1 minute). This mix can be pured into the properly prepared blockout, in which the primer is still wet. The material will flow and self-level. Use a margin trowel to work material and finish surface.

MASTEREMACO® T 2900

PROPERTIES

Of elastomeric concrete cured binder (7 days @ RT):

PHYSICAL PROPERTY	ASTM TEST METHOD	REQUIREMENT
Tensile strength, min, psi	D 638	750
Elongation @ break, min, %	D 638	200
Hardness, Durometer D	D 2240	30-49
Compression Set, 22 hrs @ 158°F, max, %	D 395 method B	50
Tear Resistance, min, lb/in	D 624	80 (2 in/min)
Water Absorption, min, max % (weight)	D 570	3
Heat Shrinkage, max, %	D 1299	1.6 max
Oven Aging @ 158°F for 72 hrs – tensile	D 638	750
Elongation, min, %	D 638	150

Of elastomeric concrete cured binder/aggregate mixture

PHYSICAL PROPERTY	ASTM TEST METHOD	REQUIREMENT
Compressive Strength	D 695	2200 psi min.
Resilience @ 5% deflection	D 695	90% min.
Slant Shear Bond Strength to Concrete		250 psi min.
Impact Resistance(Ball Drop), 14days @32°F @-20°F (-29°C) @158°F (70°C)	D3209	No cracks No cracks No cracks
Pot Life		10minutes @ 75°F

STORAGE

- Store at temperatures above 5°C (40°F) in tightly sealed containers.
- Application temperatures <70°F will result in slower cure times.

- **MasterEmaco T 2900** must be fully supported by a structural member (steel or concrete).
- Always mix as a full unit.

PACKAGING

MasterEmaco T 2900 Black

Part A – 2.2 kg

Part B – 4.3 kg

Part C – 32.6 kgs of specialty aggregate

A+B+C = One Unit of **MasterEmaco T 2900**

One Unit = 19L

MasterEmaco T 2900 Grey

Part A – 2.1 kg

Part B – 4.4 kg

Part C – 32.6 kgs of specialty aggregate

A+B+C = One Unit of **MasterEmaco T 2900**

One Unit = 19L

RELATED DOCUMENTS

MASTEREMACO T 2900

- Specification
- Installation Procedure
- MSDS



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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF Construction Chemicals publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by BASF either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not BASF Construction Chemicals, are responsible for carrying out procedures appropriate to a specific application.

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