

Tyfo® G Gel Coat

DESCRIPTION

Tyfo® G Epoxy is a two-component, hi-build, 100% solids, epoxy formulation developed for use as a final protective coating over the Tyfo® Fibrwrap® System. This material eliminates the need for a final paint.

USE

Tyfo® G provides a final protective coating with a variety of colored pigments.

COVERAGE

Approximately 100-200 ft²/gal (9.3-18.6m²/L). Uneven surfaces will reduce the coverage.

PACKAGING

TYFO® G is available in two-part kits packaged to produce 4 gallons (15.1 liters) when mixed together. Both the "A" and "B" components are shipped in five (5) gallon UN/DOT-approved shipping containers. Extra colorant is also provided.

MIX RATIO

100.0 parts component A to 42.0 parts component B by volume (100 parts component A to 34.5 parts component B by weight).

SHELF LIFE

One year in original, unopened and properly stored containers.

STORAGE CONDITIONS

This material should be stored in a cool place 40° F to 90° F (4 to 32° C). Temporary storage should not be in areas of high temperatures, particularly the "A" component. The lids of both components should be kept tightly sealed. The "A" component should be used within 12 months.

CERTIFICATE OF COMPLIANCE

- Will be supplied upon request, complete with state and federal packaging laws with copy of labels used.
- Material safety data sheets will be supplied upon request.
- Possesses 0% V.O.C. level.

HOW TO USE THE TYFO® G EPOXY

INSTALLATION

Tyfo® System to be installed by Fyfe Co. LLC trained and certified applicators. Installation shall be in strict compliance with the Fyfe Co. LLC Quality Control Manual.

MIXING

Add the contents of the "B" pail to the "A" pail and mix thoroughly with a low shear mixer. One unit of "B" must be used with one unit of "A" material. Additional mixing time will be needed when working in cooler weather. If possible, store the "A" component at a temperature above 70° F for quicker mixing.

APPLICATION

Tyfo® G may be applied with a brush, roller or trowel. The final color match is performed in the field and shall be approved by the customer prior to application. Final color applied in field by contractor. Tyfo® G should be applied within 72 hours of the application of the outer layer of fabric in order to ensure a proper bond. Use care to apply an even coat over the entire surface.

LIMITATIONS

Application temperature of the epoxy is a minimum 40° F (4° C) and maximum of 100° F (38° C). DO NOT THIN, solvents will prevent proper cure.

EPOXY COMPONENT PROPERTIES

Color	Component A standard is grey Component B is clear
Viscosity	Component A at 77° F (25° C) is 11,000-13,000 cps Component B at 77° F (25° C) is 11 cps
Pot Life	3 to 6 hours at 68° F (20° C).
Viscosity of Mixed Product	600-700 cps.
Density at 68° F (20° C) (Pound/Gallon)	Component A = 9.7 (4.4kg/3.79L) Component B = 7.9 (3.6kg/3.79L) Mixed product = 9.17 (4.2kg/3.79L)

EPOXY MATERIAL PROPERTIES

Curing Schedule 72 hours post cure at 140° F (60° C).

PROPERTY*	ASTM METHOD	TYPICAL TEST VALUE**
Tg 140° F (60° C) Post Cure (24 hours)	D-4065	180° F (82° C)
Tensile Strength ¹ , psi	D-638 Type 1	7,350 (50.7 MPa)
Tensile Modulus, psi	D-638 Type 1	322,700 (2.23 GPa)
Elongation Percent	D-638 Type 1	3.5%
Flexural Strength, psi	D-790	12,530 (86.4 MPa)
Flexural Modulus, psi	D-790	316,400 (2.18 GPa)

¹ Testing temperature: 70° F (21° C) Crosshead speed: 0.5 in. (13mm)/min. Grips Instron 2716-0055 - 30 kips

* Properties may be reduced depending on colorant used.

** Specification values can be provided upon request.

CAUTION!

COMPONENT A - Irritant:

Prolonged contact to the skin may cause irritation. Avoid eye contact.

COMPONENT B - Irritant:

Corrosive. Contact with skin may cause severe burns. Avoid eye contact. Product is a strong sensitizer. Use of safety goggles and chemical resistant gloves recommended. Remove contaminated clothing. Avoid breathing vapors. Use adequate ventilation. Use of an organic vapor respirator recommended.

FIRST AID

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water; contact physician immediately. For respiratory problems, remove to fresh air. Wash clothing before reuse.

CLEANUP

Tools may be cleaned with solvents (MEK, Acetone, etc.). Check with local regulations before using solvents. Once materials have hardened, removal may only be accomplished using mechanical methods.

SHIPPING LABELS CONTAIN

- State specification number with modifications, if applicable
- Component designation
- Type, if applicable
- Manufacturer's name
- Date of manufacture
- Batch name
- State lot number, if applicable
- Directions for use
- Warnings or precautions required by law

**KEEP CONTAINER TIGHTLY CLOSED.
NOT FOR INTERNAL CONSUMPTION.
CONSULT MATERIAL SAFETY DATA SHEET
(MSDS) FOR MORE INFORMATION.
KEEP OUT OF REACH OF CHILDREN.
FOR INDUSTRIAL USE ONLY.**

Fyfe Co. LLC

Tyfo® Fibrwrap® Systems

8380 Miralani Drive, San Diego, CA 92126

Tel: 858.642.0694 Fax: 858.444.2982

E-mail: info@fyfeco.com Web: <http://www.fyfeco.com>

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