BIO-TUFF™ 592

CHEMICAL RESISTANT, SUPER-TOUGH, SOLVENT-FREE EPOXY COATING

Thin Film Technology, Inc.

PRODUCT DATA SHEET

BIO-TUFF™ 592 is a solvent-free, toughened, chemically resistant coating. When fully cured it is hard, yet extremely flexible.

BIO-TUFF™ 592 is an extremely adhesive coating suitable for application over primed or painted steel or concrete. The formula is designed to be uniquely abrasion and impact resistant.

BIO-CHIME™ 390 is designed for applications where a flexible, corrosion resistant coating is required. It is especially recommended for exposure to aromatic and aliphatic hydrocarbons, mineral acids, esters and alcohols except methanol.

RECOMMENDED USES

CORROSION RESISTANT COATING: Designed for applications where resistance to aggressive chemicals is needed together with ability to resist impact and abrasion damage.

TECHNICAL INFORMATION

VEHICLE TYPE ……	Epoxy/polysulfide/polyamine
PIGMENTATION ……	Color/Inert/reinforcing fiber
COLORS ……	Gray
FINISH ……	Medium gloss
THINNER ……...	Not required
CLEANER ……...	MEK or lacquer thinner
MIXING RATIO ……	Base/Cure :: 1/1 by volume
INDUCTION TIME. ……	Not required
POT LIFE ……	Approx. 40’/77°F
FLASH POINT ……	Over 200°F
SOLIDS BY VOLUME ……	100%
SPREADING RATE/GAL…….	53 sq.ft./gallon @ 30 mils
DRY TIME, (TOUCH) …….	4 hours at 77°F
HARD CURE …… …	16 hours at 77°F
FULL CURE ……	72 hours at 77°F
APPLICATION METHOD……..	Brush/roller or heated plural airless spray.
VOC. …….	Essentially zero

APPLICATION NOTES

SURFACE PREPARATION – This may be accomplished in several ways:

New Concrete: leave to cure properly for a minimum of 20 days before coating. Weak surface laitance must be removed by either; acid etching or abrasive blasting. (Note: acid etching can be difficult and unreliable unless performed with particular attention to proper acid application, scrubbing, rinsing, and drying.) Abrasive blasting, (recommended), may be effected by conventional open blasting or with "Blastrac"® type centrifugal equipment. The concrete surface after preparation should have the granular appearance of medium sandpaper.

Aged Concrete: best prepared by abrasive blasting. If contaminated, contact Thin Film Technology, Inc. for advice.

Steel: Abrasive blast or power tool clean for atmospheric service.

Existing Coatings: May be applied over clean coatings in good condition, abrade existing aged coatings before overcoating with BIO-TUFF 592. Do not overcoat with conventional coatings.

APPLICATION - follow the procedure described below:

Apply by heated, plural component airless spray for best results, small areas can be applied by brush or spreader.

Requirements for heated plural spray:	Fluid pressure:	3,000 psi at gun
	Fluid temperature:	150'F+
	Fluid hose:	3/8" min for 100' length.
	Airless pump:	Graco "Bulldog", "King" or similar
	Airless Gun:	Graco 207945 or similar
	Airless tip:	33 - 37 thou"

Applications should be made between 40°F minimum and 110°F maximum.

WE URGE YOU TO READ THE MATERIAL SAFETY DATA SHEET (MSDS) BEFORE USING PRODUCT AND TO CALL THIN FILM TECHNOLOGY, INC. AS NECESSARY FOR ADVICE OR INFORMATION BEFORE ANY ACTUAL OR CONTEMPLATED APPLICATION.

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