THIN FILM TECHNOLOGY, INC.
PRODUCT DATA SHEET

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FASTONITE 700

HEAVY DUTY POOL and FOUNTAIN COATING

PRODUCT DESCRIPTION

FASTONITE 700 is a solvent free epoxy coating specially formulated for swimming pools and public fountains. These applications are very demanding, being subject to a strongly oxidizing environment and open to intense UV attack especially through the summer months. Toughening agents, adhesion promoters, and special UV absorbers extend its life in sunny climates. Additionally, microfibers can be added to increase wear protection.

During the development of this product, many otherwise first-rate coating systems were discarded when they were unable to stand up to the "swimming pool challenge". **FASTONITE 700** provided outstanding resistance even to concentrated hypochlorite over long periods.

RECOMMENDED USES

SWIMMING POOLS/FOUNTAINS: Designed for use on fiberglass and plaster pools subject to chlorine and UV exposure.

- VOC free, 100% solids system
- Ambient curing
- High chlorine resistance
- Good wear protection to foot traffic

PRODUCT INFORMATION

COMPOSITION:	Vehicle Type	Epoxy/Aliphatic Polyamines
	Pigmentation	Inert
	Mixed Density	1.56 g/ml3
	Colors	White, Ebony, Caribbean Blue, Standard Colours
	Finish/Gloss	High gloss
	Flash point	>200°F
	Solids by volume	100%, VOC free
	Thinner	Not needed.
APPLICATION:	Mixing Ratio by volume	1.8 : 1
	Pot life	50 minutes at 77°F
	Induction Time	10 minutes
	Application Method	Brush, Roller
	Recommended Application Thickness:	15 mils
	Spreading Rate / gal	107 sq.ft./gallon @ 15 mils
	Dry Time, dust free	6 hours @ 77°F (25°C)
	Dry Time, Service	24 hours @ 77°F (25°C)
	Maximum Overcoat Window	48 hours at 77°F (25°C)
	Application Temperature	45°-110°F
	Cleaner	MEK or Lacquer thinner
SHELF LIFE:	Shelf Life	24 months
	Storage Conditions	Sealed, stored in protected environment avoiding direct sunlight exposure.
TRANSPORTATION:	USDOT, IATA, IMO	Not regulated when shipped in 2 gallon or smaller kits

APPLICATION NOTES

SURFACE PREPARATION

NEW CONCRETE OR PLASTER

Surfaces are best prepared by abrasive blasting to roughen and remove the weak surface laitance. When prepared properly the surface should have the firm granular appearance of "medium" sandpaper.

AGED CONCRETE OR PLASTER

Surfaces may be prepared by either high pressure water jetting at sufficient pressure to remove all loose contamination and yielding a firm, "medium" sandpaper finish.

TREATMENT OF DETERIORATED PLASTER SURFACES

Pressure washing of worn plaster will inevitably reveal more weakened or damaged areas. When washing has been completed allow the surface to dry then apply a coat of BIO-SEAL 192 by roller, this will seal and bind loose surface materials and create an ideal surface for subsequent coats of BIO-DUR 561 and FASTONITE 700.

As soon as the BIO-SEAL 192 can be walked on, start repairing and rebuilding areas where lost plaster has left holes in the finish. BIO-DUR® 561 is a Kevlar® reinforced epoxy paste which is ideal for this job. Using a contrasting color such as gray, apply the BIO-DUR 561 to smooth out badly roughened or to replace lost plaster. Allow the BIO-DUR 561 application to cure until “gummy” before proceeding. If necessary the BIO-DUR 561 can be left to harden overnight then sanded smooth with an abrasive disc.

MIXING PROCEDURES

This material is a two-component product, premeasured to produce the desired kit size once part A and B are mixed. For small kits, a Jiffy type mixer with a high torque motor is recommended for proper blending. Pour the curing agent into the base and mix for about 1 minute, taking care to reach all corners and walls to eliminate unmixed material. Check for color streaks which represent unmixed A or B.
Unmixed material will never harden

APPLICATION

Pour the mixed product into a pan and apply with a roller using a 3/8" nap for both fiberglass and concrete. Use good quality “phenolic core” rollers that will not shed fibers into the epoxy. When making application by brush, use an appropriate sized brush with preferably natural bristles. In some applications it will be useful to either cut an inch or two of bristles from the end or to wrap the base of the bristles close to the shank with duct tape in order to stiffen the brush.

If airless plural spraying the following conditions are recommended:

Ratio: Base/Cure :: 1.8/1.0
Fluid temperature: 130’F
Fluid pressure: 2,250 psi
Tip: .028” – angle to suit application
Cleaning solvent: MEK or standard epoxy thinner

CURING BEFORE SERVICE

FASTONITE™ 700 may be immersed in fresh water 24 hours after application. It will cure to a hard film within about 14 hours and is suitable for light traffic after this time.