



TECHNICAL BULLETIN

TUFFLEX TUFF-A-Spartic 87 Zero VOC, Clear, Aliphatic Polyaspartic Coating

PRODUCT DESCRIPTION:

TUFF-A-Spartic 87 is the next generation in two component, fast drying, aliphatic polyaspartic ester coatings. While other aliphatic urethanes can only be applied between 4 and 6 mils, TUFF-A-Spartic 87 can be applied in a single coat up to 14 mils. TUFF-A-Spartic 87 features good abrasion and chemical resistance, and a cure time of two to four hours. It can be installed in unusually high or low temperatures. TUFF-A-Spartic 87 is the ideal product when low odor, fast turnaround and a non-yellowing system are essential.

ADVANTAGES:

- Low odor
- Abrasion resistant
- Non-yellowing
- Chemical resistance
- Can be Installed over Wood, Concrete and Metal
- 0 VOC
- Easy mixing ratio (1:1)
- Fast drying (2-4 hour cure)
- Impact Resistant

APPLICATIONS:

- Pharmaceutical Floors
- Food Prep/Kitchens
- Garage Floors
- Restrooms
- Manufacturing Plants
- Aisle Ways
- Auto Showrooms
- Schools
- Laboratories
- Basements
- Kennels
- Veterinary Facilities
- Locker Rooms
- Health Care Facilities
- Loading Docks
- Car Wash Facilities

COLORS:

TUFF-A-Spartic 87 is available as a standard clear coating. The following optional reactive pigment packs can be added when a pigmented coating is desired:

- Pacific Gray
- Sidewalk Gray
- Rocky Gray
- Monterey Sand
- Desert Tan
- Ash Brown

PACKAGING:

TUFF-A-Spartic 87 is available in two different kit sizes:

	Part A	Part B
2 Gallon Kit	1 gal.	1 gal.
10 Gallon Kit	5 gal.	5 gal.

PHYSICAL PROPERTIES (LIQUID):

PROPERTY	TYPICAL VALUE
Appearance	Clear Liquid
Total Solids (% by Weight)	85% ± 2
Total Solids (% by Volume)	87.5% ± 2
Surface Tension, Dynes / cm	40
Viscosity (Brookfield LVF) , cps @ 25° C	400 ± 100
Density (lbs. / gallon)	9.4
Specific Gravity (Coating)	1.13
Flash Point (Pensky-Martens closed cup)	<110° F
Freeze / Thaw Stability	N/A
Thermal Stability (28 days @ 120° F)	No Effect
Mechanical Stability	Good
VOC Content (Clear)	0 gm / liter
VOC Content (Colored) (Varies with Colors)	5—20 gm / liter

FILM PROPERTIES:

PHYSICAL PERFORMANCE PROPERTIES (TYPICAL) OF DRY FILM

All tests were conducted on 4 to 8 mil films, which were air-dried for seven days at room temperature.

PROPERTY	TYPICAL VALUE
Tensile Strength, psi	6,500
Elongation	26%
Hardness (Pencil / Sword)	2H / 70
Taber Abrasion (mg loss per 1,000 cycles, CS-17 wheel, 1,000 gm load)	50
Impact Resistance (Direct / Reverse)	140 lbs. / 140 lbs.
Crosshatch Adhesion (Untreated Cold Rolled Steel / Untreated Aluminum)	100% / 100%

QUV WEATHEROMETER:

(ALCLAD ALUMINUM 1,000 HRS.)

PROPERTY	TYPICAL VALUE
Oxidation	No Effect
Loss of Gloss	Slight
Blistering	No Effect
Yellowing	No Effect

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