

DESCRIPTION

PolySpec® FORANAFT is a synthetic emulsion and dry component system that produces a lightweight underlayment for wet or dry spaces on ships. PolySpec® FORANAFT is an easy to use, fast setting, versatile underlayment designed to be placed over steel. It has excellent affinity with adhesives, therefore providing a good bond with most materials used over it. PolySpec® FORANAFT is on the Federal Government's Qualified Products List under MIL-D-3135, Type I, Class 1.

TYPICAL APPLICATION

• Primer	410 Emulsion / FORANAFT Powder
• Body Coat	FORANAFT @ ¼" thickness

PERFORMANCE DATA

Compressive Strength (ASTM C-579)	1,350 psi (dry)
.....	1,380 psi (wet)
Flexural Strength (ASTM C-580)	1,200 psi
Water Absorption (MIL-D-3135).....	.2.15%
Oil Absorption (MIL-D-3135).....	1.7%
Impact Resistance (MIL-D-3135)	0.031" – No chipping, cracking detachment
Indentation (MIL-D-3135)	Initial: 24 hrs. cure – 20% max Residual: 96 hrs. cure – 5% max
Accelerated Light & Weather Aging Resistance (MIL D-3135)	No cracking, corrosion or separation from steel plate
Oil Absorption (MIL-D-3135).....	.20%
Fire Resistance (MIL-D-3135).....	Fire retardant
Resistance to Elevated Temperatures (MIL-D-3135)	No flow, no slip, no softening

STORAGE & INSTALLATION

Storage Environment.....	Dry area, 65–80°F
Application Temperature, ambient	50–85°F
Application Temperature, substrate	Minimum 5°F above dew point
Service Temperature	Maximum 150°F
Shelf Life	12 months
Pot Life, @ 77°F.....	20 minutes
Foot Traffic, @ 77°F.....	12-14 hours
Full Service, @ 77°F	16-24 hours

Material cures more slowly at cooler temperatures, and working time will be substantially reduced at higher temperatures. In hot weather, material should be cooled to 65°F to 80°F prior to mixing and application to improve workability and avoid shortened pot life. The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.

CONSIDERATIONS & LIMITATIONS

1. Floors should be sloped to drain to prevent standing water or chemicals. As with any surface, all spills should be removed as soon as possible to prevent a slipping hazard.
2. Confirm product performance in specific chemical environment prior to use.
3. Prepare substrate according to "Surface Preparation" portion of this document.
4. Always use protective clothing, gloves and goggles consistent with OSHA regulations during use. Avoid eye and skin contact. Do not ingest or inhale. Refer to Material Safety Data Sheet for detailed safety precautions.
5. For industrial/commercial use. Installation by trained personnel only.

PolySpec® FORANAFT

TECHNICAL DATA SHEET

Fast Setting Polymer Modified Underlayment

BENEFITS

- *Lightweight*
- *Excellent compressive strength*
- *Designed for wet spaces*
- *Moisture resistant*
- *Fast Setting*

RECOMMENDED USES

- *Used as an underlayment for all PolySpec marine products*
- *Underlayment for ceramic tile, epoxy terrazzo or quarry tile*
- *Patch spalled concrete and level uneven floors*
- *Create a pitch to drains*
- *Can be applied in most spaces on board Naval vessels and various other craft*

GENERIC DESCRIPTION

Fast Setting Cementitious Underlayment

PACKAGING / COVERAGE

Primer:

410 Emulsion	5 - Gallon Unit / 1000 sq. ft.
FORANAFT Powder	40 - Pound Bag / 300 sq. ft.

Body Coat @ ¼" thickness:

410 Emulsion	5 - Gallon Unit / 100 sq. ft.
FORANAFT Powder	40 - Pound Bag / 50 sq. ft.
Pumice	50 – Pound Bag / 110 sq. ft.

SURFACE PREPARATION

Steel: For steel surfaces, a “Near White Metal” ultra high-pressure wash or abrasive blast with anchor profile of 2–4 mils in accordance with Steel Structures Painting Council Specification SP-10 or NACE No. 2 is required.

Refer to PolySpec Surface Preparation Guidelines for more details.

INSTALLATION STEPS

1. **Primer Application:** Mix in a clean 5-gallon container 1-1/2 gallons of 410 Emulsion and ½ bag (20 lbs.) PolySpec® FORANAFT Powder to a creamy consistency. Always add powder to the liquid slowly, continuing to mix thoroughly. This mixture should be applied as a scrape coat to the prepared substrate. Primer Coverage: Approximately 300 sq. ft. per mix.

Note: DO NOT apply more prime coat than can be covered immediately before it dries. The drying time is variable depending on the atmospheric conditions. In all instances, the body coat is applied while the prime coat is still wet so the system embeds itself into the wet prime coat thickness.

2. **PolySpec® FORANAFT Body Coat Application:** Into a clean mortar box, pour two bags (80 lbs.) PolySpec® FORANAFT and one bag (50 lbs.) Pumice #4. Mix thoroughly with a hoe until the Compo and Pumice are blended throughout. Then place the thoroughly mixed dry powders in one end of the mixing box and in the other end of the box pour one pail (5 gallons) of 410 Liquid. Blend the Liquid thoroughly with the dry powders. If the weather is extremely hot, it may be necessary to add an additional 1/4 gallon to completely wet the powder mix.

While the prime coat is still wet, trowel the thoroughly mixed PolySpec® FORANAFT on the floor to the desired thickness. Make certain to press and compact the mix to eliminate voids. Then trowel the surface smooth immediately. If voids are prominent, grout the surface with grout-prime mix similar to the prime coat.

This product is fast setting; therefore, mixing in small batches makes a more effective installation.

Allow sufficient time for PolySpec® FORANAFT underlayment to set before covering with a finish deck covering. Normal time should be 15 to 20 hours, depending on the applied thickness and atmospheric conditions.

PolySpec® FORANAFT mixes will cling to the sides of the mixing box. Make certain to clean and scrape the box several times during the day.

C / DOC FORANAFT 04005-0607TDS

Rev 06/07

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POLYSPEC L.P. • 6614 GANT ROAD, HOUSTON TEXAS 77066 USA • T: 281.397.0033 • F: 281.397.6512 • www.polyspec.com