606-6 Lane Avenue North
Jacksonville, FL 32254
Phone (904) 693-8800 FAX (904) 693-8700
www.plexi-chemie.com

Product Data Sheet For:

PLEXI*COAT* F
NOVOLAC

Description:
Plexi*Coat* F is a 100% solids, chemical resistant novolac epoxy, clear or pigmented, used to coat or line concrete, masonry, or other polymeric surfaces where high chemical and thermal protection is required. Plexi*Coat* F is designed for service in harsh chemical environments. Plexi*Coat* F is used to upgrade the chemical and heat resistance of Plexi*Quartz* and Plexi*Chip* floors, as a binder in troweled surfacers and other applications. Plexi*Coat* F provides excellent chemical resistance for primary and secondary containment and will provide exceptional service near high temperature processes areas.

Certain exposures will require Plexi*Crete* (urethane mortar), Chem*Ester* P (polyester) and Plexi*Coat* P (hi-functioning hybrid resin). Plexi*Coat* F is available in clear, pigmented regular and fast cure and flake. An Antimicrobial version is also available.

Features and Benefits:
- Plexi*Coat* F has excellent chemical resistance to organic and inorganic chemicals.
- Positive cure in cool and damp conditions.
- 100% non-volatile & odorless for applications in occupied facilities.
- Self-extinguishing in thin mil applications.
- Materials comply with USDA requirements for use in federally inspected Meat and Poultry Plants.
- Plexi*Coat* F is an excellent coating for concrete, steel, aluminum and wood surfaces. It is formulated to provide better chemical resistance to dilute acids, caustics and solvents than conventional epoxy systems.
- Plexi*Coat* F can be used as a coating system where high chemical resistance is required.
- Plexi*Coat* F can be used with a quartz or chip broadcast system.
- Plexi*Coat* F can be used as a mortar binder for very heavy duty and chemical resistant flooring.

Typical Applications:
- Cafeterias, restaurants and hospital rooms
- Pharmaceutical facilities
- Food plants of all types
- Beverage and processing plants
- Institutional kitchens
- Battery storage areas
- Hangar floors
- Animal care facilities
- Labs- floors and walls
- Secondary containments

Limitations:
Do not apply in temperatures less than 40ºF or greater than 95ºF. Material cures slower at cooler temperatures and working time will be reduced at higher temperatures. Both components

should be stored at ambient temperatures between 65ºF and 80ºF. Do not apply to slabs on grade unless vapor mitigation issues have been addressed.

Surface Preparation:
Surface must be prepared to remove all sealers, curing compounds, oils, greases and other contaminants and laitance. As a standard rule, stand mix concrete should be cured a minimum of 28 days.

Cure Schedule @ 75ºF:

Pot Life*	15 minutes
Tack free*	3 hours
Foot traffic*	6 hours
Forklift traffic*	7 hours
Full chemical exposure	7 days

*****Low temp products will cure approximately 40% faster than standard cure.

Service Temperature:
200°F (immersion)
350°F (dry heat)

Packaging:
2 to 1 ratio
Packaged in 3 and 15 gallons units.
A & B mixed viscosity is 800 cps.

Coverage:
Determined by type of service but a generally Plexi*Coat* F should be applied at a minimum of 2 coats at a minimum of 10 mils per coat (160 sq. ft. /gal. minimum).

Installation:
1. ***As a coating system:*** Premix parts A&B separately prior mixing A&B together for approximately 2 minutes. Always mix by mechanical means. It is recommended that the application is a minimum of two coats. Always mix mechanically until a uniform blend is obtained.

2. ***As a binder for PlexiQuartz:*** Follow standard color quartz application techniques.

3. ***PlexiClad troweled mortar:*** See Plexi*Clad* data sheet.

Typical Physical Properties:

Compressive Strength	ASTM D-695	14,000 psi
Tensile Elongation	ASTM D-638 15-20%	2875 psi
Flexural Strength	ASTM D-790	9,600 psi
Abrasion Resistance CS-17 Wheel, 1000 g load 1000 cycles	ASTM D-1044	107 mg loss
Hardness	ASTM D-2240	66+
Bond Strength to Concrete (dry)	ASTM D-4541	475 psi Concrete Failure
Heat Distortion	ASTM D-648	150°F
Elongation at Break	ASTM D-638	10%
Water Absorption	ASTM D-570	0.09%
VOC Content		0 g/L

Plexi*Coat* F Chemical Resistance Guide:

I: Suitable for continuous service or immersion.
C: Suitable for secondary containment (72 hour immersion) or intermittent immersion, followed by regulated clean-up.
L: Limit use to splash and spillage, followed by regulated spill removal al and clean-up within four hours.
T: Consult Plexi-Chemie's Technical Department for evaluation assistance.
NR: Not recommended

ACETIC ACID – 50%	C	BROMINE WATER – 5%	L	SEA WATER	I
ACETONE	L	BUTADIENE	T	SILVER NITRATE	I
ADIPIC ACID	I	BUTYLACETATE	C	SKYDROL 500 B	I
ALCOHOL (ETHYL)	C	BUTYALCOHOL	C	SODIUM HYDROXIDE – 35%	I
ALCOHOL (METHEL)	C	CALCIUM CARBONATE	I	SODIUM HYPOCHLORITE – 5%	C
ADIPIC ACID	I	CALCIUM CHLORIDE	I	SULFURIC ACID – 20%	I
ALCOHOL (ETHYL)	C	CASTOR OIL	I	T O L U L E N E	C
ALCOHOL (METHEL)	C	CHLORINE DIOXIDE	NR	TOLUENE SULFONIC ACID	C
ADIPIC ACID	I	CHLORINE WATER (SATURATED)	NR	1 – 1 – 1 T R I C H L O R O E T H A N E	C
ALCOHOL (ETHYL)	C	CITRIC ACID	I	TRICHLOROETHANE (TCE)	C
ALCOHOL (METHEL)	C	CORN OIL	I	T R I C H L O R A C E T I C A C I D – 20%	NR
BENZALDEHYDE	NR	METHYL ISOBUTYL KETONE	C	WATER (DISTILLED AND DEMINERALIZED)	I
BENZENE	C	NITRIC ACID – 10%	L	WHITE LIQUOR (PULP AND PAPER)	I
BENZENE SULFONIC ACID – 50%	C	NITRIC ACID – 40%	NR	XYLENE	C
BENZYL ALCOHOL	NR	NITRIC ACID – 60%	NR	SEA WATER	I
BENZYL CHLORIDE	T	OILS (ANIMAL)	I	SILVER NITRATE	I
BORIC ACID	I	OILS (ANIMAL)	I	SKYDROL 500 B	I
BRINE	I	OILS (MINERAL)	I		