



TECHNICAL DATA

MFC387NP EPOXY BINDER SYSTEM

MIXING AND APPLICATION INSTRUCTIONS (NP387)

1) **PRODUCT STORAGE:** Store product at normal room temperature before using. Continuous storage should be between 60 and 90

degrees F. Low temperatures or temperature fluctuations may cause crystallization.

2) **SURFACE PREPARATION:** The most suitable surface preparation would be a fine brush blast (shot blast) to remove all laitance and provide a suitable profile. All dirt, foreign contaminants, oil, and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete is dry; this can be done by placing a 4'x4' plastic sheet on the substrate and taping down the edges.

PRODUCT DESCRIPTION:

MFC387 is a two component experimental 100% (+/- 1%) solids epoxy binder system comprised of a universal part A with three different part B components.

RECOMMENDED FOR:

Recommended as a binder for various application to be determined by the user. As an experimental product, the product should be thoroughly evaluated prior to use. Many actual behaviors & final cured characters are obtained by varying ratios & fillers which may be added.

SOLIDS BY WEIGHT:

100% (+/- 1%)

SOLIDS BY VOLUME:

100% (+/- 1%)

VOLATILE ORGANIC CONTENT:

Nearly zero pounds per gallon

COLORS AVAILABLE:

Clear gardener color 1-3 or black

PACKAGING INFORMATION:

MFC387 – all kits

MFC387FL – all kits

MFC387-1;1 – all kits

MIX RATIO:

NP387 - 9.15 pounds part A to 4.30 pounds B

NP387FL – 9.15# part A to 4.0# part B

NP358-1:1 – 9.15# part A to 8.2# part B

SHELF LIFE:

1 year in unopened containers

FLEXURAL STRENGTH:

MFC387 - 8,300 psi

MFC387FL - 4,500 psi

MFC387-1:1 - 2,600 psi

VISCOSITY:

MFC387 - Mixed= 500-1000 cps (typical)

MFC387FL - Mixed= 200-600 cps (typical)

MFC387-1:1 - Mixed= 1,000-1,700 cps (typical)

DOT CLASSIFICATIONS:

Part A "not regulated"

Part B "CORROSIVE LIQUID N.O.S., 8, UN1760, PGIII"

HARDNESS:

MFC387 - Shore D= 80

MFC387FL - Shore D= 60

MFC387-1:1 - Shore D= 58

COMPRESSIVE STRENGTH:



Spray-Lining

1-877-891-8471

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Dover, DE 19901

NP387 - 10,500 psi
NP387FL - 5,800 psi
NP387-1:1 - 4,100 psi

TENSILE STRENGTH:

MFC387 - 6,300 psi
MFC387FL - 5,100 psi
MFC387-1:1 - 2,450 psi

ULTIMATE ELONGATION:

MFC387 - 3.1%
MFC387FL - 30%
MFC387-1:1 - 60%

CURE SCHEDULE- MAY BE ACCELERATED OR DECELERATED BY SEVERAL TACTICS AS NEEDED:

MFC387
pot life (150 gram mass)..... 22-32 minutes @ 70°F
tack free (dry to touch)..... 4.75-5.75 hours @ 70 °F
recoat or topcoat.....6-9 hours @ 70°F
light foot traffic.....6-12 hours @ 70°F
full cure (heavy traffic)... 2-5 days @ 70°F
MFC387FL
pot life (150 gram mass).....85-105 minutes @ 70°F
tack free (dry to touch) 16-24 hours @ 70°F
recoat or topcoat..... 18-28 hours @ 70°F
light foot traffic.....24-30 hours @ 70°F
full cure (heavy traffic)... 2-7 days @ 70°F
MFC387-1:1
pot life (150 gram mass).....15-25 minutes @ 70°F
tack free (dry to touch) 5-8 hours @ 70°F
recoat or topcoat..... 8-12 hours @ 70°F
light foot traffic.....12-24 hours @ 70°F
full cure (heavy traffic)... 2-7 days @ 70°F

APPLICATION TEMPERATURE:

60-90 degrees F with relative humidity below 85% for best results.

PRIMER:

Dependent on product use

TOPCOAT:

Dependent on product use.

LIMITATIONS:

*Always apply a test patch prior to using for each product in the series to determine that the physical properties and the application techniques will be suitable for the proposed use of the product.

*Substrate temperatures must be 5°F above dew point.

*All new concrete must be cured for at least 30 days prior to application.

*Apply a suitable primer before using this product when applicable.