



Specialty Flooring Products

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TECHNICAL DATA: FLEXIBLE JOINT SEALANT

Flexible Joint Sealant

NC- Flexible Joint Sealant (NC-FJS) is a two component epoxy / urethane hybrid resins(polyurea) that provides a resilient filler for expansion joints. This material has excellent flexibility and adhesion properties.

Recommended Uses

For use in expansion joints for general industry as well as expansion joints of highways, bridges, airports, garages, and marine decks.

General Product Data

SOLIDS BY WEIGHT:

100%

VOLATILE ORGANIC CONTENT:

Zero pounds per gallon

MIX RATIO:

1 to 1 by volume

RECOMMENDED FILM THICKNESS / COVERAGE PER KIT:

1/2" to 1 1/2" / 2 gallon kit @ 1/2" by 1.0" yields 60-70 lineal feet

COLORS AVAILABLE:

Medium gray (mixed) Part A is white and Part B is black.

SHELF LIFE:

6 months in unopened containers

PACKAGING

2 gallon kit

CUBIC FEET

.24 (approx)

*2 gallon kit= 8.9#/gallon (.90 gallon net) part A and 11.3#/gallon (.90 gallon net) part B. (volumes and weights approximate)

TENSILE STRENGTH:

3,289 psi (ASTM D-412)

IMPACT RESISTANCE:

Excellent

SHORE HARDNESS:

Shore A= 84, shore D= 56

ADHESION:

420 psi (elcometer)- no delamination/concrete failure

ABRASION RESISTANCE:

25.4 mg loss with a 1000 gram total load at 1000 revolutions with a CS10 wheel

FLEXURAL STRENGTH:

2,782 psi (ASTM D-790)

VISCOSITY:

Mixed= 40,000 to 60,000 cps (typical)

DOT CLASSIFICATIONS:

Part A "not regulated"

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

ELONGATION AT BREAK:

50.4% at 70 degrees F (ASTM D-412)

CURE SCHEDULE (70°):

Pot life – 2 gallon mix 30-40 minutes
Recoat or topcoat..... 10-12 hours
Light foot traffic..... 16-24 hours
Full cure (heavy traffic)..... 3-5 days

APPLICATION TEMPERATURE:

Above 50 degrees F

CHEMICAL RESISTANCE:

REAGENT	RATING
xylene	2
1,1,1 trichloroethane	2
MEK	1
methanol	1
ethyl alcohol	3
skydrol	2
10% sodium hydroxide	4
50% sodium hydroxide	4
10% sulfuric acid	2
70% sulfuric acid	1
10% HCl (aq)	2
5% acetic acid	2

Rating key: 1 - not recommended, 2 - 2 hour term splash spill, 3 - 8 hour term splash spill, 4 - 72 hour immersion, 5 - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.

PRIMER:

None required

TOPCOAT:

None required. Many epoxies and urethane are compatible.

LIMITATIONS:

- *Color stability may be affected by environmental conditions such as high humidity, chemical exposure, or exposure to UV light as well as sodium vapor lighting
- *Colors may vary from batch to batch
- *Gray or neutral color is not from our standard color chart
- *Substrate temperature must be 5 °F above dew point
- *All new concrete must be cured for at least 30 days prior to application
- *This product must be mixed very well before using. Improper or inadequate mixing can cause isolated soft spots and subsequent failure.
- *See reverse side for application instructions
- *Test data based on neat resin
- *Physical properties are typical values and not specifications
- *See reverse side for limitations of our liability

Flexible Joint Sealant

Mixing and Application Instructions

PRODUCT STORAGE: Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be between 50-90°F. Avoid low temperatures and large temperature fluctuations in storage as these conditions could cause possible product crystallization.

SURFACE PREPARATION: All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. We recommend that all loose concrete, previous joint compound or other foreign material be removed to leave a clean sound joint at least 2" deep. For best results, edges should be sawcut and a one inch backer rod should be placed into the joint leaving approximately 1 to 1 1/2 inches from the top of the backer rod to the top of the joint.

PRIMER: No primer is necessary. This material is self-priming. However, any suitable primer can be used.

PRODUCT MIXING: It is important that the material be mixed well. Therefore take a few extra minutes to make sure adequate time has been taken to mix the two components together thoroughly. Improper mixing will cause an incomplete cure and soft spots in the joint. Mix one part (by volume) part A to one part (by volume) part B in an oversized mixing container. Mix well with slow speed mixing equipment until totally streak free being sure to scrape the sides and bottom of the mixing container thoroughly. Avoid high speed mixing as this could force air into the product.

PRODUCT APPLICATION: Apply the mixed product by pouring the mixed material into the expansion joint to be repaired. Remove any excess

PRODUCT APPLICATION (CONT'D): material with a putty knife or similar tool prior to curing. Alternatively, it may also be suitable to let the product become tack free in the joint and then using a razor scraper to cut off or shave the excess above the floor plane. Maintain temperatures within the recommended ranges during the application and curing process. When temperatures are lower, allow more time for this material to cure.

RECOAT OR TOPCOATING: No recoating or topcoating is necessary. However, if you opt to topcoat the applied joint compound, allow it to cure before topcoating. It is not necessary to prime over the joint compound prior to topcoating the joint compound. Many epoxies and urethanes can be used. In some instances, especially when excessive expansion joint movement is involved, topcoats may chip. However, most epoxy or topcoat products will adhere to the joint compound very well.

CLEANUP: Use xylol.

FLOOR CLEANING: Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

RESTRICTIONS: Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle.

Warranty

Since no control is exercised over product use, The Nikka Corporation warrants that its products are manufactured free from defect and are consistent and within manufacturing tolerances on our data sheets. No other oral or written representation or statement of any kind, expressed or implied, now or hereafter made is authorized or warranted by The Nikka Corporation. This product is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular use. The Nikka Corporation shall have no liability for incidental or consequential damage, direct or indirect. Our liability is limited to price of or replacement of our product at our option. By accepting delivery of our product means that you have accepted the terms of The Nikka Corporation Warranty.

Nikka Corporation
1880 West Oak Pkwy, Ste. 105
Marietta, GA 30066
678-290-0838
www.nikkacorp.com