

NP831 TECHNICAL DATA (Flexible Joint Sealant)

PRODUCT DESCRIPTION: NP831 flexible joint sealant is a two component 100% solids polymer system designed for applications where a resilient joint material is needed. The two component material (standard) is supplied with a gray component and a clear component.

RECOMMENDED FOR: Recommended for concrete/cement expansion joints in general industry.

NOT RECOMMENDED FOR: Not recommended for applications for all acids and chemicals.

SOLIDS BY WEIGHT: 100%

SOLIDS BY VOLUME: 100%

VOLATILE ORGANIC CONTENT: Zero pounds per gallon

STANDARD COLORS: Medium Gray (mixed)
Part A is gray and Part B is clear.

RECOMMENDED THICKNESS:

1/2" to 1 1/2"

COVERAGE:

2 gallon kit @ 1/2" by 1.0" yields 74-78 lineal feet

PACKAGING

CUBIC FEET

2 gallon kit 0.265 (approx)

10 gallon kit 1.325 (approx)

MIX RATIO:

1 to 1 by volume

SHELF LIFE:

6 months in unopened containers properly stored at normal room temperature. (mix before use)

HARDNESS:

40-45 Shore D

COMPRESSIVE STRENGTH: 2,300 psi

TENSILE STRENGTH: 1,984 psi

ELONGATION AT BREAK: 100%

IMPACT RESISTANCE: Excellent

ABRASION RESISTANCE:

18.2 mg loss with a 1000 gram total load at 1000 revolutions with a CS17 wheel

ADHESION:

410 psi (elcometer) – no delamination/concrete failure

VISCOSITY:

Mixed= 1,200 cps – 1,400 cps (typical)

DOT CLASSIFICATIONS:

Part A "not regulated"

Part B "not regulated"

PRIMER: None required

TOPCOAT: None required. Many epoxies and urethane are compatible.

CURE SCHEDULE (70 Degrees F)

Pot Life	25-35 minutes
Recoat or Topcoat	4-7 hours
Light Foot Traffic	8-12 hours
Full Cure (Heavy Traffic)	3-5 days
Application Temperature: 60-90 degrees F.	

CHEMICAL RESISTANCE

REAGENT	RATING
Xylene	C
1,1,1 trichloroethane	B
Methanol	A
Ethyl alcohol	C
Skydrol	B
10% Sodium Hydroxide	D
50% Sodium Hydroxide	D
10% Sulfuric Acid	B
70% Sulfuric Acid	A
10% HCl (aq)	C
5% Acetic Acid	B
Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.	

LIMITATIONS:

Color stability may be affected by environmental conditions such as high humidity, chemical exposure or exposure to certain types of light such as sodium vapor lighting.

Colors may vary from batch to batch.

Gray 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.

Apply sample installation at an off-sight location before using material in a commercial setting to become familiar with material limitations.

Product is not UV color stable.

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 and warranty

MIXING AND APPLICATION INSTRUCTIONS: NP831 Flexible Joint Sealant

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 of part B in an oversized mixing container. Mix well with slow speed mixing equipment such as a jiffy mixer until material is thoroughly mixed and streak free.

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

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.

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