american coating technologies
www.amcoating.com

Product Technical Data

AM 829HV Flexible Vertical Joint Sealant

Product Description

AM 829HV is a two component 100% solids flexible sealant paste designed for applications where a resilient flexible non-sag material is needed. The NP829HV is an excellent choice for vertical expansion joint applications. This product has excellent flexibility and provides exceptional adhesion characteristics. The standard material is supplied with black and white components so proper mixing can be easily observed.

Recommended For

Recommended for expansion joints in vertical structures, vertical and overhead repairs and any other non-sag vertical application repairs of joints or cracks in concrete or masonry surfaces.

Not Recommended For

Not recommended for applications for all acids and chemicals.

Solids By Weight:
100%

Volatile Organic Content:
Zero pounds per gallon

Colors Available:
Gray (mixed) Part A is white and Part B is black.

Recommended Thickness:
Variable (between 1/2" and 1 1/2")

Coverage Per Gallon:
1 gallon yields @ 1/2" by 1.0" yields 30-35 lineal feet.

Packaging	Cubic Feet
2 gallon kit	.24 (approx)

*2 gallon kit= 10.85#/gallon (.90-.95 gallon net) part A and 11.3#/gallon (.90-.95 gallon net) part B. (volumes and weights approximate)

Mix Ratio:
1 to 1 by volume

Shelf Life:
6 months in unopened containers

Abrasion Resistance:
24.2 mg loss with a 1000 gram total load at 1000 revolutions with a CS10 wheel

Flexural Strength:
1,600 (ASTM D-790)

Tensile Strength:
1,400 psi (ASTM D-412)

Elongation at Break:
67% at 70 degrees F (ASTM D-412)

Impact Resistance:
Excellent

Flexibility Range (Temp.):
This product remains flexible from -40 to 200°F

Shore Hardness:
Shore A= 65, Shore D= 25

Adhesion:
350 psi (elcometer)- no delamination/concrete failure

Product Type:
Epoxy urethane hybrid

Viscosity:
Mixed- 850,000 to 1,350,000 cps (typical)

Dot Classification:
Part A "not regulated"
Part B "CORROSIVE LIQUID N.O.S., 8, UN1760, PGIII

Cure Schedule: (70°)

Pot life - 2 gallon mix	20-35 minutes
Recoat or topcoat	12-16 hours
Light industrial use	24-36 hours
Full cure (heavy traffic)	3-5 days

Application Temperature:
Above 50 degrees F

Chemical Resistance:

Reagent	Rating
Xylene	B
1,1,1 trichloroethane	B
MEK	A
Methanol	A
Ethyl alcohol	C
Skydrol	B
10% sodium hydroxide	D
50% sodium hydroxide	D
10% sulfuric acid	B
70% sulfuric acid	A
10% HC1 (aq)	B
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.

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, UV 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 well before using. Improper mixing may result in product 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 and warranty.

AM 829HV Instructions:

1) 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.

2) 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 patching compound or other foreign material be removed to leave a clean sound joint or repair area. For best results, when the depth of the repair area permits, a backer rod should be used to reduce the depth of the repair area. If the repair is too deep to prevent sag or slump, apply the material in multiple coats. For vertical surfaces, a lower viscosity version of this product is available.

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

4) 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 repair area or 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.

5) PRODUCT APPLICATION: Apply the mixed product by placing the material into the repair area or joint with a marginal trowel, putty knife or other suitable equipment. 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 surface 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.

6) 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.

7) CLEANUP: Use xylol

8) SURFACE 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.

9) RESTRICTIONS: Restrict the use of the area to light duty use and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the repair area 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. N0 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.**