

Advanced
Construction
Technologies



AP NS950 EPOXY

Two Component Epoxy Paste

Product Identifier

Product Name

AP NS950 EPOXY

AP NS950 EPOXY is a two component, non-sag structural epoxy designed to offer exceptional mechanical strength in anchoring/bonding applications.

Supplier Details

Alchatek
4508 Bibb Blvd
Tucker, GA 30084
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Emergency Phone Numbers

Call CHEMTREC
Day or Night

1-800-424-9300
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Description

AP NS950 EPOXY is a two component, non-sag structural epoxy designed to offer exceptional mechanical strength in anchoring/bonding applications. Due to its high bond strength to concrete, it is ideal to use for anchoring threaded rod or rebar dowels. The consistency of AP NS950 EPOXY is good for capping for crack injection or general surface repairs. AP NS950 EPOXY is 100% solids, VOC free and Butyl Glycidyl Ether (BGE)* free.

Uses

- Crack Surface Seal
- Anchoring
- General Purpose Concrete Repair
- Epoxy Port Placement
- Crack Filling

Advantages

- Suitable for DOT work
- 1:1 Mix ratio
- Solvent Free
- High/Strength/Modulus
- Easy-To-Apply Paste
- Non-Sag
- ASTM C 881 Compliant

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Application

Note: the following are a few typical application descriptions. In case of other jobsite parameters, please contact our technical department.

PRELIMINARY ANALYSIS

For surface sealing of cracks, observe any residual contamination such as efflorescence, prior sealants, mineral deposits, etc. For anchoring or other structural repairs, consult structural engineer for suitability and product approval. Consider thickness of cracks, joints, and areas to be treated as non-sag pastes are considerably thick and do not penetrate fine cracks.

PREPARATION OF THE SUBSTRATE

For surface applications, pressure wash or grind to smooth, clean, and uncontaminated surface. Product requires dry and clean surface to achieve best bond strength to concrete. In the event of leaking structures, leak must be remedied first. For anchoring, all dowels and holes must be clean and free of loose debris and/or contamination.

PREPARATION OF THE PRODUCT

Cartridges must be shaken prior to application. Bulk material may require conditioning if stored in cold conditions.

PREPARATION OF THE EQUIPMENT

Cartridges applied with 1:1, 10.6 fl oz x 10.6 fl oz (300ml x 300ml) dual component manual or pneumatic tool. Bulk product can be applied via mixing board, scrapers, and/or standard hand mixing equipment.

APPLICATION

- For surface sealing, apply generous amount of epoxy paste to the surface of the crack covering the crack and a minimum of ½" (13mm) on each side of the crack. The crack should not be visible after application.
- When setting surface ports, first apply a small amount of epoxy paste to the base of the ports being careful to not plug or fill the opening of the surface port. The epoxy resin to be injected through the port requires a passage to the crack. Place the ports approximately 6"-12" (15.24 – 30.48 cm) spacing along the crack depending on crack width (finer cracks = close spacing).
- Once the port is placed, apply epoxy paste around the base of the port fully covering the port so that no plastic can be seen through the surface seal paste.
- Feather edges with scraper or mixing tooling.
- For anchoring or doweling, fill hole completely with epoxy paste.
- Insert anchor or dowel (overfill will occur)
- Remove overfill as needed.

REQUIRED TOOLS

1:1 dual component hand tooling for cartridge systems, or 1:1 non-sag pumping equipment for bulk systems. Hand mixing and applications require mixing board and standard hand mixing tooling.

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CLEANING AND MAINTENANCE

Cartridges can be capped and saved for future use. Dispose of plastic static mixers. Hand tooling can be cleaned with solvents or thinners. Clean pumps per manufacturer recommendations.

COMPLIMENTARY PRODUCTS

EPICOL INJ LV, plastic surface ports, and plastic static mixers.

ADVICE / FOCAL POINTS

Always note product reaction and working times to allow for application prior to product curing. Viscosities fluctuate depending on temperature. Non-sag behavior can vary based on temperature.

Technical Data

APPEARANCE

Physical Properties - Cured

AP NS950 EPOXY	
Components	Resin, Hardener
Weight per gallon (mixed)	11.93
Mix Ratio	1/1
Color	Gray
Consistency	Non-Sag Paste
GEL TIME	9

Estimating Quantities

One 20.5 oz. (600ml) cartridge yields approximately 40 cubic inches (0.66 dm³) of coverage. Two (2) gallon bulk kits cover 462 cubic inches (7.57 dm³).

Packaging

20.5 oz. (600ml) dual cartridge, or 2-gallon bulk kit (1 gallon A, and 1 gallon B).

Storage and Shelf Life

12 months in originally sealed packaging.

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Safety Precautions

Avoid contact with eyes and skin, always use personal protective equipment in compliance with local regulations. Read the relevant Safety Data Sheet before use. Safety Data Sheets are available on Alchatek.com. When in doubt contact Alchatek Technical Service.