

AV-290 Fast-Set

Two-Component Hydrophobic Foam

Technical Data Sheet

Description

AV-290 Fast-Set is a two-component, fast reacting hydrophobic polyurethane foam grout designed to stop high volume water leaks. AV-290 is packaged in an efficient, user-friendly manner with both components in a single cartridge tube. A static mixer is included. AV-290 reacts within three seconds to form a dense, firm, and impermeable foam that is tack-free within 25 seconds. The AV-290 can also be pumped using a two-component delivery system through a static mixer. This product contains no solvents, VOC's, CFC's, or HFC's.

General Uses

- Stop infiltration through sewer collection systems including manholes, pipe joints, storm and drain culverts, and other similar connects.
- Fill large voids.
- Stop leaks in earthen or concrete structures.
- Designed for tunnels, mines, dams, reservoirs, etc.

Properties: Uncured

Viscosity: Component A – 200 cps @ 77°F Brookfield Method
Component B – 800 cps @ 77°F Brookfield Method
Density: 2.5 lbs./cu. ft. (free rise) ASTM D-1622
1.5 lbs./cu. ft. (confined) ASTM D-1622
Solids: 100%

Properties: Cured

Water Absorption: <1% ASTM D-2127
Elongation: 5% ASTM D-1623
Reaction Time: 3-5 seconds
Expansion Time: 25 seconds
Shrinkage: 0% after 60 days
Color: Translucent amber

Ratio

1:1
No Water Needed

Advantages

- Fast-reacting within 3 seconds
- Simple ratio 1:1
- Non-hazardous – 100% solids, no VOC's, non-flammable
- Environmentally friendly
- Chemically resistant
- Can fill large voids and leaks

Packaging

Cartridges – 13 lb. gross weight per case, 90 cases per pallet
Pail – 5 Gallon – 45 lb. gross weight each, Pail Kits (Part A & B)

Shipping

Motor Class 55
Hazard Class: Non-Hazardous

Air Freight available for:

Cartridges
5 Gallon Pail Kits (Part A & B)

Cleaning Products

AV-208 – Acetone, Technical Grade
AV-284 – Pump Wash

Chemical Resistance for Cured Polyurethanes

E = Excellent P = Poor
G = Good S = Severe solvent or chemical attack
F = Fair

Acetone	P
Brine Saturated	E
Brine 10%	E
Diesel Oil	E
Gasoline	E
JP-4 Fuel	E
JP-5 Fuel	E
Kerosene	E
Linseed Oil	E
Methyl Alcohol	G
Methylene Chloride	F
Methyl Ethyl Ketone	P
Motor Oil	E
Toluene	E
Varsol	E
Water	E
Xylene	E

Note: For other chemicals, please contact technical support at Avanti.

Storage

Store AV-290 Fast-Set between 60°-85°F (16°-30°C). The 5 Gallon Pail Kits (Part A & B) are packaged under dry nitrogen to extend shelf life.

MSDS

Available by request, or download at www.avantigrout.com.

Safety

Product should be used only in well ventilated areas in order to keep the vapor concentration low. Eye contact and repeated skin contact should be avoided. Normal protective clothing such as gloves and goggles are recommended. A self-contained breathing apparatus should be worn in confined spaces where there is little ventilation and vapors are likely to be high.

First Aid

Eyes: Flush with plenty of water for at least 15 minutes. Get medical attention.

Skin: Wash thoroughly with soap and water. If irritation develops, consult a physician.

Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen and get medical attention.

Ingestion: Drink 1-2 glasses of milk or water. If gastrointestinal symptoms develop, get medical attention.

Note: Never give anything by mouth to an unconscious or convulsing person.

Notice

The data, information and statements contained herein are believed to be reliable, but are not construed as a warranty or representation for which Avanti International assumes any legal responsibility. Since field conditions vary widely, users must undertake sufficient verification and testing to determine the suitability of any product or process mentioned in this or any other written material from Avanti for their own particular use. NO WARRANTY OF SUITABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE. In no case shall Avanti International be liable for consequential, special, or indirect damages resulting from the use or handling of this product.