

TRACER DYES

FOR USE WITH AV-100[®], AV-118[®], AV-150[™],
AV-254[™], & AV-350[™]

DESCRIPTION

Tracer dyes are used extensively with Avanti's gel systems to track the paths of the grout. Available in blue, green, red, and yellow.

APPLICATION

- For use in conjunction with AV-100, AV-118, AV-150, AV-254, and AV-350
- Assists in monitoring permeation of the soil or rock formation
- Determine permeability of soil or rock formation to be treated
- Leak detection in mainlines, sewers, and manholes using water as a carrier

FEATURES AND BENEFITS

- Available in powder or tablet form
- May use primary colors to create secondary colors to ensure the equipment is functioning properly and the product is permeating well
- Does not affect product performance
- Use a small amount (6 – 10 grams of powder) in a gallon of water and replace a gallon of water from initial mixing instructions with dye solution
- One tablet can be used per 30 gallon tank
- Tablets available for easier use and application
- Cured gels containing tracer dyes from a tablet can be viewed under UV light

GROUTING TECHNIQUES

- Remote Packer
- Tube-a-Manchette (TAM) Grouting
- Probe Grouting
- Curtain Grouting

MIX PROCEDURE

Add 6 – 10 grams of dye powder to one gallon (3.8 L) warm to hot water and mix thoroughly. Replace one gallon (3.8 L) in initial mix with dye solution. For tablets, add one tablet per 30 gallon tank.

HOW IT WORKS

Dyes are used to trace the product permeation in the soil or rock formation. Adding recommended amount of yellow dye to the catalyst tank and adding the recommended amount of blue dye to the grout tank will generate a green color when the products are mixing correctly. Colors generated using tablets are visible under UV light.

PERFORMANCE

Performance is dependent on amount used. Perform cup tests to determine desired hue.

PACKAGING

- Please contact Avanti for more information.
- Tablets available.

SHIPPING

- Motor Class 55
- Non-Hazardous

PROPERTIES*

BLUE

Appearance: Dark Blue
Solubility: Soluble
Odor: None
Molecular Formula: $C_{37}H_{34}N_2Na_2O_9S_3$
Molecular Weight: 792.84

GREEN

Appearance: Dark Green
Solubility: 0.2 g/L @ 72°F (22°C)
Odor: None
Molecular Formula: $C_{14}H_8O_2$
Molecular Weight: 208.21

RED

Appearance: Red
Solubility: 15.0 g/L @ 72°F (22°C)
Odor: Mild
Molecular Formula: $C_{28}H_{31}N_2O_3Cl$
Molecular Weight: 478.5

YELLOW

Appearance: Yellow/Orange
Solubility: Soluble
Odor: None
Molecular Formula: $C_{20}H_{12}O_5Na$
Molecular Weight: 355.30

*Laboratory Results

CLEANING PRODUCTS

Use water with a light detergent.

STORAGE

Store in temperatures within or near 60°F – 100°F (16°C – 38°C) in a dry atmosphere.

SAFETY

Always use OSHA-approved personal protective equipment (PPE). Avoid skin and eye contact with both forms of the product. Do not ingest. Refer to the SDS for safety precautions. The SDS is available by request or via download at avantigrout.com.

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.