



# Unsmoke® Unsoot #1

FOR PROFESSIONAL USE ONLY  
LegendBrandsRestoration.com

## Encapsulant and Deodorizing Sealer

### BACKGROUND

Any number of events in a building can generate soot and particulate contamination; the most well known are structural fires and furnace malfunctions known as “puff backs”. The cleaning process can be frustrated by air currents moving this particulate contamination from soiled to clean surfaces. An additional complication is that soot has extremely high surface area and can adsorb strong odors.

Unsoot #1 is a low solids, low solvent product that forms a protective coating; this coating encapsulates soot and other contaminants. The film has no gloss, is almost colorless and, therefore, does not affect the appearance of the surface.

Unsoot #1 can also be combined with odor control agents to provide additional odor control capability.

### ITEMS NEEDED

- Unsoot™ #1 Encapsulant
- **Optional odor Control products:** OdorX 9D9™; OdorX Last Resort™
- **Personal Protective Equipment (PPE)** as specified in the Material Safety Data Sheet (MSDS)
- **Supplies:** Empty 5-gallon pail, empty 1-gallon bottle, measuring cup, adequate supply of clean cloths and a plastic bag for the storage of soiled cloths
- **Equipment:** airless paint sprayer; electric sprayer, ULV Fogger (the ProRestore Products Blastmaster is recommended)

### TO PREVENT CROSS-CONTAMINATION OF AIRBORNE PARTICULATE DURING STRUCTURAL DRYING & DEHUMIDIFICATION OPERATIONS:

1. Thoroughly clean & decontaminate affected surfaces.
2. Prepare a ready to use solution of Unsoot #1 by mixing 26 ounces of concentrate with enough water to make one gallon. (200 ml/L). This solution will be viscous
3. Apply to structural materials, voids, cracks and crevices.
4. Covers 500 square feet per gallon (12 square meters per liter) when applied with an electric sprayer or airless paint sprayer. The ULV fogger is not recommended for this process.

### PROCEDURE FOR USE AS A PROTECTIVE SEALANT IN HVAC DUCTING

1. Stop all fans, blowers and motors.
2. Isolate section of ductwork to be cleaned. Maintain service area under sufficient negative pressure to remove particulate.
3. Remove all register vents.
4. Remove loose debris with industrial vacuum and/or high pressure air
5. Clean interior of ductwork as far as physically possible.
6. Prepare a ready to use solution of Unsoot #1 by mixing 26 ounces of concentrate with enough water to make one gallon. (200 ml/L). Note: No additives should be used when applying Unsoot #1 in HVAC.
7. Use a ULV fogger for this process. Adjust fogger to moderate mist. Increase the amount of product used on insulated ducts by as much as 50% to 250 square feet per gallon (24 square meters per liter).
8. Begin application at furthest entry point and work towards blower. Seal first entry point with cheese cloth. Seal all other entry points with plastic film.
9. Activate blower to dry and set application.
10. Remove plastic film and cheese cloth. Replace registers.

### USE AS A DEODORIZING PRESEALER

Unsoot #1 can be used in a deodorizing pre-sealer solution for smoke damaged structural surfaces. Note: No product with a fragrance is allowed in an HVAC system; therefore, this mixture is not intended for such use: To make 5 gallons of Deodorizing Pre-Sealer combine the following in a clean 5 gallon (18.9 L) container:

1. One gallon (3.78 L) Unsoot #1 Encapsulant
2. One quart (0.96 L) 9-D-9

3. Up to five ounces (150 mL) Last Resort
4. Fill the balance with water. This solution covers 500 - 750 square feet per gallon (50 square meters / 4 L) when applied with commercial airless paint sprayer or electric sprayer. The ULV fogger is not recommended for this process.

#### CLEAN UP

- Check all PPE for damage. Repair or replace as needed.
- Clean the outside of the spraying equipment to remove soot and soils. This will help to prevent cross-contamination and will maintain your professional image on the next job.
- Rinse containers and dispensing equipment to remove product residues and waste water. Be sure to dispose waste water properly. Never dispose into surface waters, on the ground or into a storm drain.
- Flush the sprayer with detergent and then rinse with water to remove any product residue. Empty water from the sprayer, especially in cold climates where freezing is possible.
- Wash hands after using the product.

#### SAFETY CONSIDERATIONS

- **IMPORTANT:** The odor of this product, like any other common material with a fragrance may be irritating to some persons with allergic sensitivity. It is recommended to allow occupants to “sniff test” the product prior to application. For “sniff testing” prepare the ready-to-use solution and dip a note card or business card into the solution. Allow occupant to “sniff” both wet and dried solution. Obtain permission from occupants prior to product application. Individuals may reoccupy treated spaces when they feel physically comfortable and/or upon advice of their consulting physician
- Keep children and pets away from chemical products, equipment and the work area.
- Read the Safety Data Sheet (SDS) for any chemical product before using it
- Be sure electrical equipment including plugs and extension cords are in good condition.
- Be sure to wipe any surfaces where there has been a spill of the product
- Wash hands after using the product.
- Be sure to use personal protective equipment. Depending on the nature of the damage in the building, this could include hard hats, heavy soled shoes, full protective suits or aprons. In every instance when spraying solutions overhead or in your breathing zone you should use eye protection, gloves and respiratory protection.
- Unsoot #1 has a low level of volatile organic solvent. This solvent evaporates quickly and will not be present after the room is ventilated. The polymers that comprise the final film are not volatile and will not off gas.

#### ADDITIONAL REFERENCES under “Resources” on LegendBrandsRestoration.com

- Cleaning system guides
- Product User Guides
- Safety Data Sheets
- Product labels
- Tech Tips blog

#### UNSOOT #1 TECHNICAL DATA

Sold as	Case of four 1 gallon (3.8 L) bottles
Re-order number	433502000 case
Color	Milky white
Odor	Mild
Appearance	Liquid
Flash point	217° F   103° C
Specific gravity	1.05
Density	8.7 pounds per gallon
pH of concentrate	4.9
VOC content	<ul style="list-style-type: none"> <li>• 2% by weight in concentrate</li> <li>• 4.4 grams per liter for 1:5 ready to use solution</li> </ul>
Phosphate content	None
Non volatile matter	2%
Storage	Keep from freezing
Water solubility	100%
Flame Spread (per ASTM E84)	Zero
Smoke Generation (per ASTM E84)	Zero