



Wet Patch Roof Leak Repair

Airable Research Lab has developed a soy-based replacement for the petroleum-based solvents in roof patch leak repair consumer products. Leveraging the power of soy, our roof patch formulation replaces ~25% of the raw materials sourced from petroleum and is low in volatile organic compounds (VOCs). Airable's roof patch provides a safer and more sustainable alternative for the eco-conscious consumer.

THE TECHNOLOGY

Commercial roof patches rely on naphtha or mineral spirits as the carrier solvent to deliver petroleum asphalt, cellulosic material, and inorganics as a quick sealant for leaky roofs. Airable's formulation completely replaces the solvent while achieving the same performance. Replacing the solvent makes our formulation low in VOCs, resulting in a safer and more environmentally friendly product. In addition, Airable's wet patch is softer than commercial products, affording a longer working time without affecting the waterproof seal.

TECHNICAL DATA

| Physical Property | Commercial Control | Airable's Formulation |
|---------------------|------------------------------------|-----------------------|
| Biobased Content | ~5% | ~25% |
| VOCs | 300 g/L maximum | Low |
| Appearance | Thick, black paste | Identical |
| Consistency @ 77°F | Soft, easily trowel-able paste | Identical |
| Underwater Adhesion | 100% | Identical |
| Freeze Resistance | Does not freeze | Identical |
| Behavior @ 140°F | No blistering, sagging, or sliding | Identical |
| Pliability @ 32°F | No cracking or separation | Identical |



Side-by-side comparison of Airable's roof patch and a commercial product. The appearance and consistency are identical.

STATUS AND AVAILABILITY

This technology is already available, although Airable is continuing research to increase the soy content in the formulation. Contact Airable Research Lab if you would like to get involved or learn more.

