

K-FLEX DUCT LINER GRAY AND AIR DUCT CLEANING

National Air Duct Cleaners Association (NADCA)

NADCA is an international association based in Washington DC dedicated to providing guidance to the duct cleaning industry. The NADCA website, www.nadca.com provides valuable information regarding Contractor Qualifications, System Inspection, Cleaning Methodology and Cleanliness Verification. K-Flex USA is a NADCA member.

Why Are Air Ducts Cleaned?

Air ducts are cleaned to provide acceptable Indoor Air Quality (IAQ) to the occupants of a building. Cleaning may be part of preventative maintenance or it may be required to improve system performance and / or reduce and control microorganisms. Dust and microorganisms are usually considered to be nuisances but may be health hazards to individuals who suffer with allergies or have open wounds or repressed immune systems.

What Three Conditions Must Occur Simultaneously for Mold or Bacteria to Grow?

- Adequate Temperature (40°F to 120°F; optimum at 70°F to 90°F)
- Moisture (In general, microbes are dormant at relative humidity levels below 50% and microbial activity increases as the level of relative humidity increases)
- Food Source (accumulations of dust and/or dirt)

K-Flex Duct® Liner Gray has a closed cell structure and a smooth surface skin which prevents dirt and moisture accumulation from occurring within the liner. With an extremely low water vapor permeability (wvt) rating of less than 0.10 perm-in. and water absorption rate of less than 0.10% (% change by volume), K-Flex Duct® Liner Gray is an excellent choice when installed in new construction or as a replacement liner. K-Flex Duct® Liner Gray is also protected with an EPA-registered integral antimicrobial agent that is highly effective against mold, bacterial and algae growth, is UL GREENGUARD Gold listed for VOC content and is UL Validated as Mold Resistant. K-Flex Duct® Liner Gray will not be damaged when subjected to recommended cleaning procedures.

When Would Liner Replacement Be Required?

The NADCA HVAC System Cleaning Specifications state:

“If there is any evidence [during the inspection process] of damage, deterioration, delamination, friable material, mold or fungus growth, or moisture such that fibrous glass materials cannot be restored by cleaning or resurfacing with an acceptable insulation repair coating, they shall be identified for replacement.”

K-Flex Duct® Liner Gray is available in rolls or in 3' x 4' sheets with an optional pressure sensitive adhesive (PSA) backing, or can be adhered using K-Flex 1120 water based fast tack adhesive, allowing for easier installation and greatly reducing the need for solvent based adhesives when replacing duct liner in occupied buildings. Mechanical fastening per SMACNA guidelines is recommended.

Note: Effective use of PSA or 1120 water based adhesive is highly dependent upon the condition of the substrate. See Technical Bulletin TA 46 for surface preparation requirements.

