



# SPOT<sup>™</sup> AgION<sup>™</sup>

## Antimicrobial Coated Ductwork

### QUALITY FROM START TO FINISH

*Indoor air quality has become a leading environmental issue. Studies have shown that the air we breathe indoors is often more polluted than outdoor air and that 70 or more percent of indoor air quality problems involve HVAC systems.*

*Ductwork manufactured with AgION<sup>™</sup> antimicrobial-coated steel helps resolve these contamination issues by providing a second line of defense against destructive microbes.*

*The demand for antimicrobial products is increasing. More and more owners and engineers are requesting it for its effectiveness in inhibiting the growth of damaging bacteria, mold and fungi.*

*AgION<sup>™</sup> antimicrobial-coated steel ductwork is durable and should be incorporated into HVAC systems for hospitals, pharmaceutical facilities and food processing amenities, schools, daycare centers and nursing homes.*

*AK Coatings' AgION<sup>™</sup> Antimicrobial Steel. We are incorporating their steel into our complete line of Heating, Ventilation and Air Conditioning ductwork.*

*SPOT AgION<sup>™</sup> is our name and available through our knowledgeable team. Please call today for more on our destructive microbe SPOT AgION<sup>™</sup> duct work.*



### SPOT AgION<sup>™</sup> Antimicrobial Coated Ductwork

The AgION<sup>™</sup> antimicrobial compound is a long-lasting, inorganic material that contains silver ions — a safe and natural antimicrobial agent. The compound has two key components working together to suppress the growth of microbes: Silver Ion (the active agent) and Zeolite (stores the silver ions and releases them).

When moisture is present the Zeolite gives a controlled release of silver ions into the environment. This release provides continuous antimicrobial protection for the product. As the humidity increases, and the environment becomes ideal for bacterial growth, more silver ions are released.

For most types of bacteria, the treated surface will be virtually free of microbial contamination within three to four hours, protecting the product from degradation for the life of the coating. The coating life is a function of the application and surface wear.

Coated products must still be cleaned to insure the surfaces will be free of destructive microbes. This serves as an added cleanliness to support regular cleaning routines between each cleaning.

The coating life is a function of the application and surface wear, but could average between 10-30 years depending on the thickness of the coating and the wear it receives.

The coating containing the AgION<sup>™</sup> antimicrobial compound shall withstand temperatures not to exceed 350F for an extended period of time.



## MATERIALS:

AK Coatings offer antimicrobial-coated galvanized, carbon and stainless steel products up to 60 inches wide in gauges from .018 inch to .060 inches. Products are also available up to 48 inches wide in gauges from .060 inches to .075 inches. Heavier gauge coating capabilities are currently being developed.

SPOT AgION™ Antimicrobial Steel duct can be produced in rectangular, round, flat oval and thermal acoustical panels as supplied by Spiral Pipe of Texas, Inc.

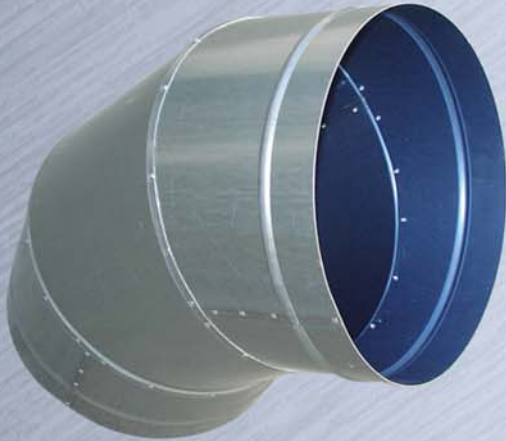
Duct system components shall be manufactured from gauges defined in SMACNA's Duct Construction Standards – latest edition. Coating containing the antimicrobial compound shall have a hardness of 2H minimum when tested per ASTM D3363.

## APPLICATION:

The AgION™ antimicrobial compound is blended into a paint system and applied to AK products by continuous coil coating.

The interior surface is treated with the AgION™ antimicrobial coating uniformly and applied with a minimum thickness of 0.1 mils. An untreated clear coating is applied to the exterior surface of the duct. [If necessary, both surfaces of the ductwork can be treated with the coating containing the AgION™ antimicrobial compound].

Gaps in the coating wider than 1/4" shall be repaired in order to maintain product performance. Repair kits are available in spray or brush applications and can be purchased through Spiral Pipe of Texas to the installing contractor.



## SPECIFICATIONS

### Applications:

Rectangular Ductwork  
Round Ductwork  
Oval Ductwork  
Thermal Acoustical Panels

### Metals:

Galvanized  
Carbon  
Stainless

**Gauge:** 26 gauge to 18 gauge

**Width:** Maximum 60"

**Maximum Temperature:** 350F

**Smoke/Flame Spread:** Virtually 0

### REGULATORY:

Antimicrobial compound is registered with the EPA (Environmental Protection Agency) and FDA (Food and Drug Administration).

Antimicrobial coated product conforms to Standard 723 – not to exceed flame spread or smoke developed ratings of 25/50.

Antimicrobial coated product complies with ASTM B117, ASTM D247, and ASTM D870



Spiral Pipe of Texas Inc.

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