COVID-19 and Cleaning Practices
An Overview of COVID-19 Cleaning and Disinfection in Airport Environments
What We Know Today About COVID-19
COVID-19 is a Lipid Virus or “Envelope Virus”

**Lipid Virus**

- Surrounded by envelope of lipoprotein
- Envelope is relatively sensitive
- Generally, easily inactivated by many types of disinfectants
  - Alcohols, such as ethanol or 2-propanol
  - Can be killed by disinfectants that are viricidal against enveloped viruses
How long does it live?

- Aerosol (airborne) form up to 3 hours
- Cardboard up to 24 hours
- Plastic up to 72 hours
- Stainless steel up to 48 hours
- Copper up to 4 hours
What inactivates COVID-19?

- Products with EPA-approved emerging viral pathogens claims are expected to be effective against SARS-CoV-2 based on data for harder to kill viruses.
- Enveloped viruses are easier to inactivate.
- As of today, NO product has a direct claim.
- Test methods have yet to be developed.
How is COVID-19 transmitted?

- Close contact, within 6 feet, via respiratory drops
- Transmission from surfaces (fomites) has not been documented
- Scientists say there is a lot to learn, but suspect transmission is similar to SARS-CoV from 13 years ago
Proper Terminology

Cleaning, Sanitizing, Disinfecting, and Sterilizing
TERMINOLOGY
Commercial Cleaning Terminology

- **Cleaning**: Removes germs - doesn’t kill them
- **Sanitizing**: Reduces contaminants to safe levels of 99.9% (no viral or fungi control)
- **Disinfecting**: Destroys pathogens/microorganisms (viral and fungi control up to 99.9999%)
- **Sterilizing**: Renders a product free of all forms of viable microorganisms
- **Contact time**: Time a disinfectant is in direct contact with the surface or item to be disinfected
Clean First, Then Disinfect

Best practices for cleaning airport facilities with COVID-19 in mind
Protect Your Cleaning Crews

- Follow CDC for recommended PPE
- In uninfected areas*:
  - Masks provided to each team member, not yet mandatory
  - Gloves
  - Eye protection
- In known case areas and during deep cleaning/disinfecting:
  - Masks (N95), gloves
  - Eye protection
  - Tyvek suits

*as of April 6, 2020
● Best practice measure for prevention of COVID-19 and other viral respiratory illnesses in community settings.

● If surfaces are dirty, they should be cleaned using a detergent or soap and water prior to disinfection.

● Routinely clean all **frequently touched surfaces** in the workplace, such as workstations, countertops, and doorknobs.

● Use the cleaning agents that are usually used in these areas and follow the directions on the label.
BEST PRACTICES

Cleaning High Touch Areas

- TSA/Security Checkpoints
- Elevators & Escalators
- Recycling & Waste Stations
- Kiosks & Touchscreens
- Water Fountains
- Charging Stations
- Seating Areas
- Moving Walkways
- Handrails
- Tables & Food Court Areas
BEST PRACTICES

Carpet

- Vacuum
- Pre-treatment with disinfectant and allow minimum dwell time
- Cleaning & extraction
- Rapid dry with a room dryer
BEST PRACTICES

HEPA Type Vacuums

- Use HEPA type filters for containment of any air exiting the system.
- COVID virus is 125nm or equivalent to 0.125 microns.
- Our HEPA products clean the air to 0.03 Microns at 99.97% (HEPA Guidelines)
- Our vacuums actually help to reduce the virus in the air through the filtration process.
Thank You

Call 1-844-649-8884 with any questions you might have
kbarton@flagshipinc.com
flagshipinc.com/aviation