

DuPont Surfaces

DUPONT™ ZODIAQ® SOLID SURFACES

EFFECTS OF HEALTHCARE CHEMICAL DISINFECTANTS

TECHNICAL BULLETIN

DuPont™ Zodiaq® quartz surface is a durable, long-lasting and virtually maintenance-free material that provides the needed performance for today's healthcare industry. This bulletin reviews the compatibility of commonly used chemical disinfectant solutions with DuPont™ Zodiaq® quartz surfaces.

In a healthcare setting, it is essential to be able to control the spread of infectious diseases. This is done partially through proper cleaning of surfaces within the healthcare environment. The choice of specific cleaning and disinfecting agents is largely a matter of judgment, facility procedures or government regulations. A single chemical disinfectant may not be suitable for all purposes or all environments within the healthcare facility.

The evaluation conducted by the DuPont Building Innovations Research and Development Center has examined the effects of disinfectant exposure on DuPont™ Zodiaq® quartz surfaces. A procedure similar to that described for testing of materials per ISO 19712-2:2007 and ANSI/ICPA SS-1-2001 was used to evaluate the effects of these disinfectants on DuPont™ Zodiaq®. Several drops of each disinfectant were placed on the surface and covered with a concave glass cover. After 16 hours, the glass cover was removed and the sample was removed from the surface with soap and water. The following tables list the disinfectants used in this evaluation and the effect(s) the disinfectant had on the Zodiaq® quartz surface.

Sterilants/High Level Disinfectants

Disinfectant	Effect on Zodiaq®	Maintenance Procedure
Ortho-Phthalaldehyde	No effect	None Required
Glutaraldehyde	No effect	None Required
Glutaraldehyde and Phenol	No effect	None Required
Peracetic Acid	No effect	None Required
Hydrogen Peroxide	No effect	None Required
Hypochlorite (Bleach)	No effect	None Required
Hydrogen Peroxide and Peracetic Acid	No effect	None Required

Sterilants/High Level Disinfectants: Used according to the manufacturer's use-dilution directions for High Level Disinfection. Prolonged exposure to concentrated, undiluted disinfectant solutions may lower the gloss on the quartz surface in the affected area and require repair. Clean spills promptly, additional information regarding DuPont™ Zodiaq® quartz surface care and maintenance may be obtained at www-surfaces.dupont.com



zodiaq®

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Environmental Surface Disinfectants

Disinfectant	Effect on Zodiaq®	Maintenance Procedure
Ortho-Phthalaldehyde	No effect	None Required
Glutaraldehyde	No effect	None Required
Glutaraldehyde & Phenol	No effect	None Required
Hydrogen Peroxide	No effect	None Required
Hydrogen Peroxide and Peracetic Acid	No effect	None Required
Peracetic Acid	No effect	None Required
Phenol	No effect	None Required
Hypochlorite (Bleach)	No effect	None Required
Accelerated Hydrogen Peroxide	No effect	None Required
Quaternary Ammonium Compounds	No effect	None Required
Alcohol (Ethyl, Isopropyl)	No effect	None Required
Alcohol (Ethyl, Isopropyl) and Quaternary Ammonium Compounds	No effect	None Required

Environmental Surface Disinfectants were used according to the manufacturer's use-dilution directions for general disinfection. Prolonged exposure to concentrated, undiluted disinfectant solutions may lower the gloss on the quartz surface in the affected area and require repair. Clean spills promptly, additional information regarding DuPont™ Zodiaq® quartz surface care and maintenance may be obtained at www.zodiaq.com

References

Sehulster LM, Chinn RYW, Arduino MJ, Carpenter J, Donlan R, Ashford D, Besser R, Fields B, McNeil MM, Whitney C, Wong S, Juranek D, Cleveland J. Guidelines for environmental infection control in health-care facilities. Recommendations from CDC and the Healthcare Infection Control Practices Advisory Committee (HICPAC). Chicago IL; American Society for Healthcare Engineering/American Hospital Association; 2004.