



# DuPont™ Zodiaq® Quartz Surfaces

## VOLATILE ORGANIC COMPOUND (VOC) CONTENT OF DUPONT™ ZODIAQ® PRODUCTS



In an effort to improve indoor air quality, a number of states have established guidelines and regulations related to the volatile organic compound (VOC) content and emissions of building materials. Recommended strategies to reduce exposure to VOC emissions include evaluation and selection of low-VOC-emitting building materials, including consideration of material emissions during and after installation.

DuPont™ Zodiaq® Quartz Surfaces, DuPont Surfaces Joint Adhesive and DuPont Surfaces Sealant for Zodiaq® all have low VOC content and are amongst the safest surfacing materials available. Zodiaq® Quartz Surfaces are made from 93% quartz crystals and advanced polymers and are produced in several manufacturing facilities around the world. Once the ingredients of Zodiaq® are fully reacted (polymerized) in the manufacturing process, they become a chemically stable solid surfacing material with minimal impact on indoor air quality. This makes Zodiaq® an ideal surface for use in countertops, wall cladding and a wide variety of other applications.



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The volatile organic compound (VOC) content of DuPont™ Zodiaq® Quartz Surfaces, cured DuPont Surfaces Joint Adhesive and cured DuPont Surfaces Sealant for Zodiaq® was determined by method ASTM D-5116 (Small Scale Environmental Chamber Determination of Organic Emissions from Indoor Materials and Products). In addition, Zodiaq® has been measured against the indoor air quality guidelines published by Greenguard Environmental Institute and California's Special Environmental Requirements Specification Section 01350, used to calculate a material's contribution to indoor air quality after installation.

**In all cases, DuPont™ Zodiaq® Quartz Surfaces, DuPont Surfaces Joint Adhesive and DuPont Surfaces Sealant for Zodiaq® surpass the indoor air quality (IAQ) requirements of these guidelines and can be considered low-emitting materials.**

Low-level VOC emissions from DuPont™ Zodiaq® Quartz Surfaces, DuPont Surfaces Joint Adhesive and DuPont Surfaces Sealant for Zodiaq® have been carefully reviewed. None of the emissions found have been cited by any of the following:

- NTP** (National Toxicology Program)
- OSHA** (Occupational Safety & Health Administration)
- NIOSH** (National Institute for Occupational Safety and Health)
- CA Prop. 65** (California Safe Drinking Water and Toxic Enforcement Act of 1986, better known by its original name of Proposition 65)
- CA OEHHA** (Special Environmental Requirements (Section 01350), based on OEHHA (California Office of Environmental Health Hazard Assessment) Special Environmental Requirement Section)
- NAAQS** (U.S. Environmental Protection Agency (EPA) National Ambient Air Quality Standards)

Additionally, the U.S. Green Building Council's LEED Green Building Rating System® cites South Coast Air Quality Management District (SCAQMD) Rule #1168 as a requirement for LEED® credits. DuPont Surfaces Joint Adhesive and DuPont Surfaces Sealant for Zodiaq® fall well below the SCAQMD requirement and can be considered low VOC content materials. The VOC contents of these materials and comparison to the associated SCAQMD limit per Rule #1168 are as follows:

	VOC content	SCAQMD limit
DuPont Surfaces Joint Adhesive	less than 50 grams/liter	250 grams/liter
DuPont Surfaces Sealant	32 grams/liter	250 grams/liter



Additional information regarding DuPont™ Zodiaq® Quartz Surfaces, DuPont Surfaces Joint Adhesive and DuPont Surfaces Sealant for Zodiaq® can be obtained by calling 1-800-436-6072.



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