

EPA Toxic Chemicals List

1. Benzene
2. Cadmium (and compounds)
3. Carbon Tetrachloride
4. Chloroform
5. Chromium (and compounds)
6. Cyanides
7. Dichloromethane or Methylene Dichloride
8. Lead (and compounds)
9. Mercury (and compounds)
10. Methyl Ethyl Ketone
11. Methyl Isobutyl Ketone
12. Nickel (and compounds)
13. Tetrachloroethylene or Perchloroethylene
14. Toluene
15. Trichloroethane
16. Trichloroethylene
17. Xylene

Silicone Sealants Green Update

The EPA List of 17 Toxic Chemicals

The EPA list of 17 toxic chemicals was derived from the most heavily used Toxic Release Inventory (TRI) reported pollutants. This list originated from the EPA's 33/50 Program. Although this program was voluntary and was completed in 1999, government and industry users continue to reduce their use of these hazardous chemicals.

All Construction Sealants are Not Environmentally Equal

A Case in Point:

District Post Office Project, Oklahoma City, Oklahoma, August 2003

All Seal Waterproofing submitted Sonneborn *Sonolastic*® NP 2 as the weatherproofing sealant for the District Post Office Project. Dale, a product approver for the project, made the following observations:

- “ - NP 2 base contains *Toluene Diisocyanate*.
- Silver Brite Alum Pigment contains *Toluene*.
- Bronze has *Xylene and Toluene*.

All are on the list of 17 chemicals we have agreed with the EPA not to use – I cannot approve those products.”

This decision was based on the instruction to “Maintain and check Material Safety Data Sheets (MSDS) for all chemical products used in your operation to see if they contain one or more of the 17 chemicals targeted for elimination.”

Dow Corning® brand Solutions

Dow Corning® 795 Silicone Building Sealant was successfully substituted as the weatherproofing sealant for the Oklahoma City District Post Office Project because the product's MSDS confirms that it does not contain any of the chemicals on the EPA list.

Whenever you have questions about a silicone sealant's suitability for a green construction project, check the product's MSDS.

Leadership in Energy and Environmental Design (LEED)

The *LEED Green Building Rating System*™ is a voluntary, consensus-based national standard for developing high-performance sustainable buildings.

LEED Certification Information	Dow Corning® brand Sealant	
	790 Silicone Building Sealant	795 Silicone Building Sealant
Post-Consumer Recycled Content	0%	0%
Post-Industrial Recycled Content (due to possible blending of off-color material into existing product)	0-5%	0-5%
Location of Manufacture	Elizabethtown, Kentucky	Elizabethtown, Kentucky
Location of Raw Material Incorporated into Material	Elizabethtown, Kentucky	Elizabethtown, Kentucky
VOC of Material	40 g/L	30 g/L

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Why Dow Corning Silicone Sealants Make Environmental, Performance and Economic Sense

Silicone products last longer than organic products and need to be replaced less often. Therefore, the waste generated during recaulking over the life of the building is less.

Something to think about: If a silicone sealant has a greater-than-20-year service life, while its organic counterpart needs to be cut out and replaced every seven years, the garbage and solvent usage that results from sealing (and resealing) the building with an organic sealant will be at least three times greater than it would be if a silicone sealant were used.

Building owners and project leaders who are concerned about green construction and the use of environmentally friendly products can rest assured that *Dow Corning* sealants are their best sealant choice. While the initial purchase price may be higher for *Dow Corning* silicone sealants, specifying them over organic-based sealants will result in

- superior waterproofing performance,
- longer service life,
- less recaulking for less time and material waste,
- a better environmental profile and,
- in the long-run, a more cost-effective installation.

The Rest of the Story

Dow Corning offers an outstanding range of high-performance, environmentally friendly silicone structural glazing and weatherproofing solutions. But materials are only part of the story.

Dow Corning also has an industry-wide reputation for providing knowledgeable technical service and support, an outstanding warranty program and a reliable global product supply. For more than 50 years, *Dow Corning* materials have set the industry standard for durability, weatherability and reliability.

For materials, service and support you can trust, depend on Dow Corning.

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