

SEALANTS

WCS1 / WCS5 Water Clear Silicone Sealant

PRODUCT NAME

WCS1/WCS5 Water Clear Silicone Sealant

PRODUCT DESCRIPTION

Water Clear Silicone Sealant is an optically clear one-part silicone sealant that cures in the presence of atmospheric moisture to produce a durable and flexible silicone rubber. Water Clear Silicone Sealant is intended for building construction applications and is particularly effective for glazing butt and lap shear joints and sealing curtainwall projections and other glass, plastic and metal assemblies. It is also appropriate for general construction and industrial applications. It adheres to clean metal, glass, most types of wood, silicone resin, ceramic, natural and synthetic fiber, and most painted surfaces.

- Water Clear Silicone Sealant meets or exceeds the test requirements of Federal Specification TTS-230C, ASTM C-920.

It is a silicone material that is chemically stable and shows little change in physical properties after exposure to sunlight, rain, snow, ozone, temperature extremes and weathering.

APPLICATION LIMITATIONS

Water Clear Silicone Sealant is not recommended for use in the following applications:

- Glazing or edge sealing of insulating glass.
- Building materials that might bleed oils, plasticizers or solvents, such as impregnated wood, oil-based caulks, green or partially vulcanized rubber gaskets or tapes.
- Confined Spaces. The sealant requires atmospheric moisture for cure.
- Surfaces which will be painted. The paint film will not stretch with the extension of the sealant and may crack and peel.
- Cement, masonry, limestone, marble or other stone surfaces.
- Copper, brass, magnesium, zinc, or galvanized surfaces.
- Continual submersion in water (ie: marine or aquarium applications).
- As a structural adhesive.

CAUTION

Exceptional clarity of product will not hide application or tooling errors. A small amount of bubbles may form during the curing process of the sealant, so considerations should be made up front regarding standards of appearance and subsequent repairs (eg: limited to sight lines).

BASIC USES

Water Clear Silicone Sealant will provide exceptional clarity, making it the ideal sealant to use in frameless shower enclosures, glass entries and partitions, specialty glass assemblies and glass block installation. Its unique weatherability enables it to retain original design properties, even after years of exposure. It is easily applied and will cure in the presence of atmospheric moisture (acetoxo cure) to produce a durable and flexible glazing seal.

Once thoroughly cured, CRL Water Clear Silicone Sealant will stay flexible for at least 25 years, when properly applied and used under normal conditions.

TECHNICAL DATA

TABLE 1 - PHYSICAL PROPERTIES	
Property/Test Methods	Value
Sag or Slump	.Nil
Tack-Free Time*	.10 Minutes
Tooling Time*	.7 to 10 Minutes
Full Cure*	.3 Days
Time to Full Cure 1/4" Bead*	.24 Hours
Durometer Hardness (Shore A)	.30
Dynamic Joint Movement	.±25%
Application Temperature	.-35° to 140°F (-37°C to 60°C)
Service Temperature	.-80° to 450°F (-62° to 232°C) Continuous .Up to 500°F (260°C) Intermittent
Weatherability	.Excellent
Tensile Strength	.300 psi
Elongation	.400%

*@77°F (25°C) / 50% Relative Humidity

PACKAGING

10.3 and 5 Fl. Oz. Cartridges; 30 per carton.

SHELF LIFE

When stored in original, unopened containers at or below 90°F (32°C) Water Clear Silicone Sealant has a shelf life of 12 months from the date of manufacture.

SEALANTS
Water Clear Silicone Sealant

7

PROFESSIONAL QUALITY
CRL

JULY 2003
(Supersedes April 2000)

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7

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Water Clear Silicone Sealant

TECHNICAL SERVICE

Complete technical information and literature is available from C.R. Laurence Co., Inc. Any technical advice furnished by the company or any representative of the company concerning any use or application of any sealant is believed to be reliable, but the company makes no warranty, expressed or implied, for any use or application for which such advice is furnished.

LIMITED WARRANTY NOTICE

CRL and its manufacturer warrant our products to be of good quality and will replace or, at our election, refund the purchase price of any products proved defective. Satisfactory results depend not only upon quality products but also upon many factors beyond our control in the application process. Therefore, except for such replacement or refund CRL and its manufacturers make no warranty or guarantee, expressed or implied, including warranties of fitness merchantability, respecting its products. CRL and its manufacturers shall have no other liability with respect thereto. User shall determine the suitability of the product for his intended use and assume all risks and liability in

connection therewith. Any authorized change in the printed recommendations concerning the use of our products must bear the signature of the CRL Product Manager.

COOPERATIVE TESTING

Materials submitted for testing should be sent to:

C.R. Laurence Co., Inc.
 Technical Sales Department
 PO Box 58923
 Los Angeles, CA 90058-0923

This program is intended to eliminate potential field problems by pretesting CRL construction sealants with sample of the building materials on which the sealant will be applied. The test will aid in determining the proper surface preparation method, effective solvents for cleaning and whether priming is necessary to achieve optimum adhesion. Following this procedure will remove many of the unknown variables which affect field success.

Test samples of substrates should be identified as to manufacturer, origin, designed use building project, person and firm originating the request. Appropriate sketches or drawings showing the intended use can be helpful.

C.R. LAURENCE CO., INC. LOCATIONS

United States

Los Angeles, California
 2503 E Vernon Avenue
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 2080 Lone Star Drive
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 Atlanta, GA 30336-4040
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 97 Robert Treat Paine Drive
 Taunton, MA 02780-1267
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 6950 Presidents Drive
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7

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7