



# Butyl Sealant for sealing concrete joints

CONCRETE INFRASTRUCTURE



MarMac's Butyl Sealant (C-990) is a flexible rope gasket for sealing joints of precast concrete structures. Butyl Wrap is made of non-skinning, non-drying butyl-based compound that retains elasticity and adhesion in extreme weather conditions. It is resistant to moisture and to deterioration by way of exposure to dilute chemical solutions.

Use our Butyl Sealant in joints of manhole sections, septic tanks, box culverts, concrete pipe, concrete valves, utility vaults, and much more. It is also great for sealing the seams of metal sheeting, like roof panels and Morton Building walls.

## Features & Benefits

- ASTM C 990 compliant
- Chemical resistant
- Permanently flexible
- Fast & easy application
- Extreme temperature performance
- No shrinkage, non-corrosive
- Will not deteriorate with age
- No adhesion loss or cracking
- Hydrostatic performance





# Butyl Sealant data sheet

## Applications

- Manhole Joints
- Box Culverts
- Concrete Valves
- Vertical Panel Structures
- Septic Tanks
- Reinforced Concrete Pipe
- Utility Vaults
- Metal Sheeting

## Availability

- Roll widths: 0.75, 1.00, 1.25, 1.50"
- Roll lengths: 174, 131" (1.50" width only)

WIDTH	LENGTH	CARTON QTY
0.75"	174"	8
1.00"	174"	6
1.25"	174"	4
* 1.50"	131"	4

\* *Special order only*

## Specifications

Meets all requirements of ASTM C 990 Section 6.2. Meets requirements of AASHTO M-198 with the exception of flash point and fire point.

Not recommended for use in areas of concentrated oils or hydrocarbon solutions. Prior to working with MarMac C-990, consult the product label and Safety Data Sheet (SDS) for necessary health and safety precautions.

During testing method ASTM C 990 for chemical resistance, MarMac Butyl Sealant C-990 had no visible change after 30 days of immersion in 5% solutions of HCl, H<sub>2</sub>SO<sub>4</sub>, NaOH, KOH, or H<sub>2</sub>S. Upon testing in accordance with ASTM C 765, Butyl Sealant had no sag or shape change after 14 days when tested at 158°F for elevated temperature flow, and did not experience cracking or adhesion loss when tested at -10°F for low temperature flexibility.

## TYPICAL PROPERTIES

APPLICATION PROPERTIES	MIN	MAX
Service temp range	-40 °F	250 °F
Application temp range	20 °F	120 °F



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## TYPICAL PROPERTIES

	VALUE	METHOD
Color	Black	Visual
Specific gravity	1.15 - 1.40	ASTM D 71
Hydrocarbon content	50 % minimum	ASTM C 990
Ash content	45 - 48 %	AASHTO T111
Ductility	6.0 cm	ASTM D 113
Compression index @ 77°F	40 - 55 lbf/in <sup>3</sup>	ASTM C 972
Compression index @ 0°F	130 - 160 lbf/in <sup>3</sup>	ASTM C 972
Solids content	99 % minimum	ASTM D 6
Cone penetration @ 77°F	55 - 85	ASTM D 217

### Storage

Butyl Sealant C-990 should be stored in its original packaging (shelf life 2 years), out of direct sunlight, protected from the elements. Material should be kept away from direct heat, sparks and open flame. For optimum results, store in a tepid (60-80° F) environment prior to installation. Storage temperature should not exceed 120°F (49°C).

### Installation

The surface of the structure to be sealed should be dry and clean of dirt and debris. Take a roll of MarMac Butyl Sealant from case and avoid touching the sealant to dirt and other materials on the job site to ensure proper adhesion. Apply Butyl Sealant with exposed sealant against the concrete structure and apply around the joint without stretching. Cut to length and complete seal by butting the cut ends without overlapping and molding the ends together. Remove the protective release paper by peeling it away from the sealant. Set the joint properly with the sections aligned and straight. MarMac Butyl Sealant will adhere to the concrete surface and fill the annular space in a uniform manner between the tongue and groove when the pieces are properly joined.

For more information, additional instructions, or questions regarding Butyl Sealant, visit [marmac.com/Butyl-Sealant](http://marmac.com/Butyl-Sealant) or scan the QR code on the first page.

*CAUTION: Prior to use, please read the Manufacturer Warranty & Disclaimer found at [marmac.com/cp/disclaimer](http://marmac.com/cp/disclaimer).*

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