

MasterSeal CR 195

High performance, UV resistant, highly elastic polyurethane joint sealant

Material Description

MasterSeal CR 195 is a one component, moisture curing, thixotropic aliphatic polyurethane sealant. Aliphatic technology ensures **MasterSeal CR 195** will be UV resistant, non-chalking, non-staining, self-cleaning and non-pick, resulting in unmatched durability.

Areas of Application

Active, exterior and interior joints that demand extreme UV resistance and long term colour integrity including but not limited to: expansion joints in buildings and civil structures above and below ground, construction joints, joints in precast concrete elements, external walling and cladding joints, infill panel joints, curtain walling, etc.

MasterSeal CR 195 can be used on both vertical and horizontal applications including trafficable surfaces on floors, panels, walls, window frames, curtain walls and precast panels.

Substrates include concrete, masonry, brick, aluminium and timber.

Pick resistance finds applications in shop fronts, prisons, schools and public amenities.

Characteristics & Benefits

- Aliphatic UV stable polyurethane technology - non-staining, non-yellowing, non-chalking, low dirt pickup, self-cleaning.
- Medium modulus - excellent puncture and abrasion resistance.
- Improved gunability and workability - easy tooling.
- Pick resistant - security applications
- Suitable for non-chlorinated water immersion situations - no swelling or softening.
- Movement capability $\pm 25\%$ - expands and contracts with joint movement.
- Excellent chemical resistance - ideal in food or petroleum environments.
- Approved to AS/NZS 4020:2018 (tested to the maximum exposure level) - suitable for contact with potable water.

Compliances

- AS 4020: 2018: Potable water contact
- Federal Specification TT-S-00230C, Type II, and Class A when primed
- ASTM C 920, Type S, Grade NS, Class 25. Use NT, M, A, G and I
- Corps of engineers CRD C-541, Type II, Class A
- USDA approved for use in meat and poultry areas
- Canadian approval for use in areas that handle food

Performance Data

Property	Test Method	Value (Average)
Movement capability (MAF)	ASTM C 719	$\pm 25\%$
Tensile strength	ASTM D 412	4.1
Ultimate elongation at break	ASTM D 412	600%
Hardness at standard conditions (Shore A)	ASTM C 661	50 \pm 5
Tack-free time	ASTM C 679	Less than 72 hours
Stain and colour change	ASTM C 510	None
Volatile Organic Compounds (VOC)	SCAQMD Method 304-91	90g/litre
Service temperature range (°C)		-40 to 82
Potable water certified	AS/NZS 4020:2018	5,000 m ² /L

Note: The data represents information typically required to verify performance.

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Estimating Data

Joint Size (mm)	Metres per litre	Metres per 600ml Sausage
5 x 5	40	24
10 x 10	10	6
12 x 12	6.95	4.17
15 x 7.5	8.88	5.33
20 x 10	5.00	3.0
25 x 12.5	3.20	1.92
30 x 15	2.22	1.33

Application

For information on joint design, surface preparation and priming, refer to Sealant Application Guide.

Application

- **MasterSeal CR 195** comes ready to use. Apply by professional caulking gun. Do not open cartridges or sausages, until preparatory work has been completed.
- Fill joints from deepest point to the surface by holding a suitably sized nozzle against the back of the joint.
- Dry tooling is recommended. Do not use soapy water when tooling. Tooling results in the correct bead shape, a neat joint, and maximum adhesion.

For Best Performance

- Do not allow uncured MasterSeal CR 195 to come into contact with alcohol-based materials or solvents.
- Do not apply polyurethane sealants in the vicinity of uncured silicone or modified silicone sealants
- MasterSeal CR 195 should not come in contact with oil-based caulking, polysulfides or fillers impregnated with oil, asphalt or tar.
- All security applications require priming.
- When MasterSeal CR 195 is to be used in areas subject to water immersion, cure for 21 days at 25°C and 50% relative humidity. Do not use in swimming pools or other submerged conditions where the sealant will be exposed

to strong oxidizers. Avoid submerged conditions where water temperatures will exceed 50°C.

- Protect unopened containers from heat and direct sunshine.
- In cool or cold weather, store container at room temperature for at least 24 hours before using.
- Do not apply over freshly treated wood; treated wood must have weathered for at least 6 months.
- All horizontal applications require the use of a primer.
- Low temperatures will extend curing times.
- Substrates such as copper, stainless and galvanized typically require the use of a primer; MasterSeal P 692 is acceptable. An adhesion test is recommended for any other questionable substrate.

Curing

The cure of MasterSeal CR 195 varies with temperature and humidity. The following times assume 23°C, 50% relative humidity, and a joint 12mm width by 6mm depth.

- Skins - overnight or within 24 hours
- Functional within 3 days
- Full cure in approximately 1 week
- Immersion service: 21 days

Note: If joint thickness is more than 6mm, then cure period increases.

Cleaning

Immediately after use, clean equipment with Thinners. Use proper precautions when handling solvents. Remove cured sealant by cutting with a sharp edge tool. Remove thin films by abrading.

Packaging

20 x 600 ml sausages to a carton.

Storage & Shelf Life

Store in original, unopened packaging under normal conditions. **MasterSeal CR 195** has shelf life of 12 months.



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Precautions

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.

Disclaimer

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STATEMENT OF RESPONSIBILITY

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MB Solutions Australia Pty Ltd

ABN 69 634 934 419
 11 Stanton Road
 Seven Hills NSW 2147

Freecall: 1300 227 300

www.master-builders-solutions.com/en-au

MB Solutions New Zealand Ltd

45C William Pickering Drive
 Albany, Auckland
 New Zealand

Phone: +64 9 414 7233

Emergency Advice:

1300 954 583 within Australia (24hr)
 0800 001 607 within New Zealand

