

# MasterSeal CR 195

One-component, aliphatic, non-sag, elastomeric, polyurethane security sealant

## Material Description

MasterSeal CR 195 is a one component, moisture curing, thixotropic aliphatic polyurethane sealant for security and institutional uses requiring elasticity, abrasion and puncture resistance, with superior color integrity.

## Areas of Application

- Horizontal and vertical surfaces for seamless sealing.
- Interior and exterior use in various construction projects.
- For use in substrates: concrete, masonry, granite, marble, brick, metals and woods
- Water-immersed applications such as wetwells and manholes.
- Sealing storefronts for durable and weather-resistant protection.
- Expansion joints to accommodate movement and prevent cracking.
- Curtain walls and panel walls for airtight and watertight sealing.
- Use with precast units for enhanced structural integrity.
- Aluminum, vinyl, and wood window frames to provide flexible, long-lasting seals.
- Public infrastructure such as prisons, schools, and stadiums for secure and reliable sealing.
- Large-scale surfaces like parking decks and plazas.
- Wastewater treatment plants, dams, and spillways for high-performance sealing in demanding environments.
- Storm drains to prevent water infiltration and ensure system integrity.

## 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.

## 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	< 72 hours
Stain and colour change	ASTM C 510	None
Volatile Organic Compounds (VOC)	SCAQMD Method 304-91	90 g/litre
Service temperature range (°C)		-40 to 82
Adhesion in peel*, pli	ASTM C 794	37 CF**
Glass		34 CF**
Aluminum		43 CF**
Concrete		
Water immersion, 50° C	ASTM C 1247	Passes 10 weeks with cycling

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

\* Primed for water immersion dictated by ASTM C 920. Concrete and aluminum primed with Masterjoint PRI 692.

\*\* Cohesive failure

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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 "Joint Sealant" Application Guide.

### Joint Preparation

- In optimum conditions, the depth of the sealant should be ½ the width of the joint.
- In deep joints, the sealant depth must be controlled by closed cell backer rod or soft backer rod. Where the joint depth does not permit the use of backer rod, a bond breaker (polyethylene strip) must be used to prevent three-point bonding.
- To maintain the recommended sealant depth, install backer rod by compressing and rolling it into the joint channel without stretching it lengthwise. Closed cell backer rod should be about 3 mm larger in diameter than the width of the joint to allow for compression. Soft backer rod should be approximately 25% larger in diameter than the joint width. The sealant does not adhere to it, and no separate bond breaker is required. Do not prime or puncture the backer rod.

### Surface Preparation

- Substrates must be structurally sound, fully cured, dry and clean. Substrates should always be free of the following: dirt, loose particles, oil, grease, asphalt, tar, paint, wax, rust, waterproofing or curing and parting compounds, membrane materials and sealant residue.

### CONCRETE, STONE, AND OTHER MASONRY

- Clean by grinding, sandblasting, or wire brushing to expose a sound surface free of contamination and laitance.

### WOOD

- New and weathered wood must be clean, dry and sound. Scrape away loose paint to bare wood. Any coatings on wood must be tested to verify adhesion of sealant or to determine an appropriate primer.

### METAL

- Remove scale, rust, and loose coatings from metal to expose a bright white surface. Any coatings on metal must be tested to verify adhesion of sealant or to determine an appropriate primer.

### Priming

- MasterSeal CR 195 is considered a non-priming sealant, but special circumstances or substrates may require a primer. It is the user's responsibility to check the adhesion of the cured sealant on typical test joints at the project site before and during application. Refer to product data sheet on MasterJoint PRI 695, and consult Technical Services for additional information.
- For immersion applications, MasterJoint PRI 695 must be used.
- Apply primer full strength with a brush or clean cloth. A light, uniform coating is sufficient for most surfaces. Porous surfaces require more primer; however, do not over-apply.
- Allow primer to dry before applying MasterSeal CR 195. Depending on temperature and humidity, primer will be tack-free in 15–120 minutes.
- Priming and sealing must be done on the same day.

### Sealant 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.



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## 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; MasterJoint PRI 695 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.

## 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.

## Specification Clause

All joint sealing works shall utilise a high-performance, one-component, aliphatic polyurethane sealant with superior elasticity, color stability, and resistance to puncture equivalent to MasterSeal CR 195. For Pick resistant and security applications, a suitable sealant meets the performance mentioned in the performance data table. For applications in water tanks to be approved for potable water contact as per AS/NZS 4020:2018, with full cure achieved in one week under standard conditions.



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## Disclaimer

MasterSeal-CR 195-ANZ-V8-I 124

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