



# MasterSeal® NP 150™

## HYBRID Technology





# The Sealant Preferred by Restoration Professionals

The **Original Hybrid**—originally developed and introduced under the Sonneborn® brand in 1998, MasterSeal NP 150 holds the prestigious title of being the first true hybrid Joint Sealant to gain acceptance in the North American commercial construction market.

With an ability to accept significant thermal movement, a surface that readily accepts acrylic coatings and an inherent ability to bond to plastics, metals, and existing sealant residues, MasterSeal NP 150 is truly the “Preferred Sealant” of restoration professionals.

## Long term high performance – Specifiers prefer it

And it's been a long love affair. Since its introduction 10 years ago it's success has spawned many imitators. The unique properties of MasterSeal NP 150 have proven over time that it has the adhesion, flexibility, compatibility with coatings and durability needed to provide a long-term watertight seal you can depend on.

## Easy to use – Contractors prefer it

The high performance of MasterSeal NP 150 combined with ease of application maximizes profits, reduces contractor callbacks and creates showcase projects that speak for themselves. It's the ideal sealant for your restoration tool kit.

## Sustainable restoration – Building owners prefer it

The superior weather resistance, good adhesion to a wide range of materials including architectural coatings, and extended life cycle of MasterSeal NP 150 joint sealant make it essential for sustainable repairs and long term integrity.

## MasterSeal NP 150

A unique high performance, one-component, non-sag sealant with excellent movement capability and excellent unprimed adhesion to non-porous materials. The combination of movement capability and rapid paintability make this the ideal sealant for restoration and anywhere coatings are used in combination with sealants.

## MasterSeal NP 150 Tint Base

A multi-component, non-sag, high performance sealant, MasterSeal NP 150 Tint Base combines excellent movement capability with the availability of 470 colors to match any substrate. It's easy to mix, gun and tool, and can be painted as soon as it skins resulting in faster turnaround on time-sensitive projects.

## Calculating your savings

- Expansion and construction joints in precast concrete panels and in-situ concrete
- Brick and masonry joints
- Cladding and metal curtain wall joints
- Marble, granite and GFRC facade joints
- Metal and plastics
- Doors, window and siding





## Hybrid Technology: the best of silicone and polyurethane

MasterSeal NP 150 combines the best properties of polyurethane and silicone sealants. This unique hybrid chemistry was specifically chosen for its high performance characteristics such as movement, adhesion, paintability and bonding.

### Solvent-free = environmentally safe

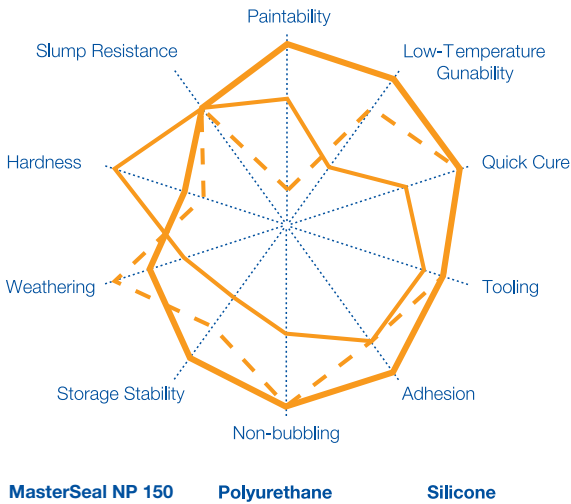
MasterSeal NP 150 meets federal AIM/VOC regulations with a VOC content next to zero. With little or no detectible odor, it is ideal for interior work for LEED projects.

## Engineered to stick

Superior long term adhesion to a wider range of substrates. With a low modulus and superior adhesion, MasterSeal NP 150 sticks better to more types of substrates including mortar, stone, metals and plastics. Its high solids content eliminates shrinkage and it will not separate from the substrate even after years of weathering.

## It's all in the chemistry!

MasterSeal NP 150's hybrid technology offers the best of both urethane and silicone technologies. Created from STPe chemistry, a high molecular weight polypropylene oxide is capped with allyl and hydrosilylated producing a methyltrimethoxysilyl end-capped polyether. The polyether chain imparts good storage stability and durability while methyltrimethoxysilyl functional groups offer high reactivity. Unlike polyurethanes, aminosilanes can be used to provide superior adhesion to a variety of substrates. During cure, methoxysilane functional groups react with moisture liberating methanol producing silanol groups. These silanols further react with other silanols or methoxysilanes producing siloxane linkages. The curing mechanism is illustrated above. Though siloxane linkages are produced, MasterSeal NP 150's main chain is polyether which, unlike silicone sealants, provides superior paintability.



## Designed to last

Weather resistance and durability  
MasterSeal NP 150 has superb durability and resists cracking, splitting, discoloration and adhesion failure from expansion and contraction of building joints year after year.

## Built for handling

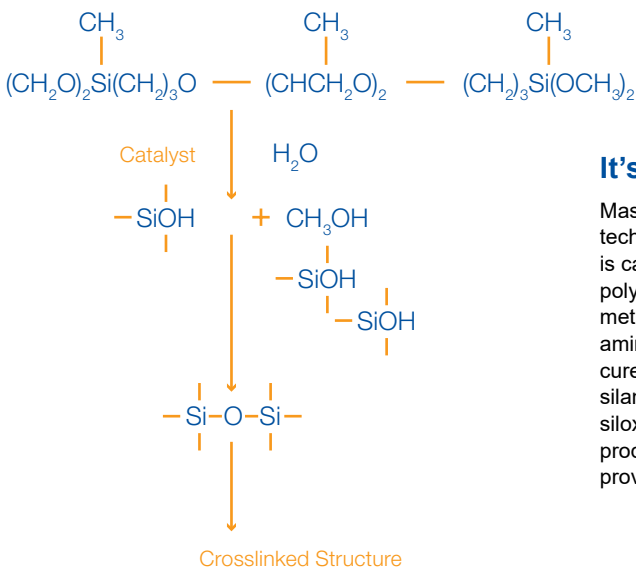
Easy application means more successful results MasterSeal NP 150 is easy to work and tool, making application amazingly simple. The result: neater beads and joints, thereby improving the aesthetics of your project.

### Low temperature gunnability

MasterSeal NP 150 is less dependent on temperature changes than most sealants, producing easy and consistent gunnability and less fatigue during the application process.

### Enhanced Aesthetics

The superior paintability and non-staining characteristics of MasterSeal NP 150 improve building aesthetics. You can easily match any color through either custom tints or choose from our full line of standard colors. Anyway you look at it, buildings look great longer.





## Master Builders Solutions

The Master Builders Solutions brand brings all of MBCC Groups expertise together to create chemical solutions for new construction, maintenance, repair and renovation of structures. Master Builders Solutions is built on the experience gained from more than a century in the construction industry.

The know-how and experience of a global community of MBCC Group construction experts form the core of Master Builders Solutions. We combine the right elements from our portfolio to solve your specific construction challenges. We collaborate across areas

of expertise and regions and draw on the experience gained from countless construction projects worldwide. We leverage global MBCC Group technologies, as well as our in-depth knowledge of local building needs, to develop innovations that help make you more successful and drive sustainable construction. The comprehensive portfolio under the Master Builders Solutions brand encompasses concrete admixtures, cement additives, chemical solutions for underground construction, waterproofing solutions, sealants, concrete repair and protection solutions, performance grouts and performance flooring solutions.

## Master Builders Solutions products for the Construction Industry:

### MasterAir®

Solutions for air-entrained concrete

### MasterBrace®

Solutions for concrete strengthening

### MasterCast®

Solutions for manufactured concrete product industry

### MasterCem®

Solutions for cement manufacture

### MasterEmaco®

Solutions for concrete repair

### MasterFinish®

Solutions for formwork treatment

### MasterFlow®

Solutions for precision grouting

### MasterFiber®

Comprehensive solutions for fiber reinforced concrete

### MasterGlenium®

Solutions for high-performance concrete

### MasterInject®

Solutions for concrete injection

### MasterKure®

Solutions for concrete curing

### MasterLife®

Solutions for enhanced durability

### MasterMatrix®

Advanced rheology control solutions for self-consolidating concrete

### MasterPel®

Solutions for water tight concrete

### MasterPolyheed®

Solutions for high-performance concrete

### MasterPozzolith®

Solutions for water-reduced concrete

### MasterProtect®

Solutions for concrete protection

### MasterRheobuild®

Solutions for super-plasticized concrete

### MasterRoc®

Solutions for underground construction

### MasterSeal®

Solutions for waterproofing and sealing

### MasterSet®

Solutions for retardation control

### MasterSure®

Solutions for workability control

### MasterTop®

Solutions for industrial and commercial floors

### Ucrete®

Flooring solutions for harsh environments

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**Constructions Systems US, LLC**  
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 Shakopee, MN 55379 USA

**Customer Service (800) 433-9517**  
**Technical Service (800) 243-6739**  
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