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Technical Data Guide

MASTER[®]
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Joint
Sealants

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MasterSeal[®] NP 125

One-component, elastomeric,
thermoplastic sealant and adhesive

FORMERLY SONOLASTIC[®] CLEAR 25™

PACKAGING

Gun Grade: 300ml (10.1 fl. oz.) in either composite or plastic cartridges

- Composite cartridge: 12 or 24 per carton
- Plastic cartridge: 12 per carton (for clear only)

Brush Grade: 1 gallon metal cans, 4 cans per case

COLOR

Clear
Black
White

YIELD

A 1/2" round bead will yield approximately 7.7 linear feet (2.35 m) per cartridge

STORAGE

Store in original, unopened containers away from heat and direct sunlight. Storing at elevated temperatures will reduce the shelf life.

SHELF LIFE

Plastic Cartridges: 18 months when properly stored

Composite Cartridges and Metal Cans: 2 years when properly stored

VOC CONTENT

315g/L for gun grade
410g/L for brush grade
less water and exempt solvents

DESCRIPTION

MasterSeal NP 125 is a one-component, high-performance, non-priming, thermoplastic sealant and adhesive. It requires no mixing and bonds tenaciously to common building materials, including concrete and clay roof tiles, metal flashings and masonry.

PRODUCT HIGHLIGHTS

- One-component formula requires no mixing prior to use
- Fast tack-free time. Reaches ultimate performance properties within 7 days.
- Superior adhesive strength provides long lasting bonds to a wide variety of substrates. (see application section for more information)
- Wide temperature range is suitable for exterior use in all climates
- Compatible with most non rigid paints and can be painted

APPLICATIONS

- Residential
- Commercial
- Sheet roofing
- Liquid applied roofs
- Metal roofs
- Shingled and tiled roofs
- Between adjacent layers of roof tile
- Sealing edge and ridge tiles
- Penetration seals
- Flashings
- Skylight frames
- Termination bars and reglets
- Parapet expansion joints
- Lap seals in metal roof assemblies
- Sealing wood forms

SUBSTRATES

- | | |
|-------------|-------------------------|
| • Clay Tile | • Porcelain |
| • Concrete | • Painted Metals |
| • Masonry | • Composite Materials |
| • Aluminum | • Rubber |
| • Wood | • Acrylic Glass |
| • Vinyl | • PVDF Coatings |
| • Ceramic | • Asphalt Roof Shingles |

A brand of
MBCC GROUP

Technical Data**Composition**

MasterSeal NP 125 is a one-component thermoplastic rubber.

Compliances

- ASTM C 920, Type S, Grade NS, Class 12.5, Use T, NT, M, A and O
- Federal Specification TT-S-00230C, Type II, Class B

Typical Properties

PROPERTY	VALUE
Service temperature range, ° F (° C)	-40 to 180 (-40 to 82)

TABLE 1

Joint Width and Sealant Depth

JOINT WIDTH, IN (MM)	SEALANT DEPTH AT MIDPOINT, IN (MM)
¼–½ (6–13)	¼ (6)
½–¾ (13–19)	¼–⅜ (6–10)
¾–1 (19–25)	⅜–½ (10–13)
1–1½ (25–38)	½ (13)

Test Data

PROPERTY	RESULTS	TEST METHOD
Movement capability, %	± 12.5	ASTM C 719
Tensile strength, psi (MPa)		ASTM D 412
7 days	422(2.91)	
14 days	679(4.68)	
Ultimate elongation at break, %	560	ASTM D 412
Elongation strength, % 7 days	622.2	ASTM D 412
14 days	679.1	
Rheological, (sag in vertical displacement) at 120° F (49° C)	No sag	ASTM C 639
Extrusion rate, g/sec:	75g/sec	ASTM C 603
Hardness, Shore A at 70F and 50%RH	40–45	ASTM C 661
Weight loss, after heat aging, %	< 10	ASTM C 792
Cracking and chalking, after heat aging	None	ASTM C 792
Tack-free time, min	15 min	ASTM C 679
Stain and color change	No visible stain	ASTM C 510
Adhesion in peel*, pli	17	ASTM C 794
Artificial weathering, Xenon arc, 500 hours	No surface cracking	ASTM C 793

Test results are typical values obtained under laboratory conditions. Reasonable variations can be expected.

HOW TO APPLY**JOINT PREPARATION**

1. The product may be used in sealant joints designed in accordance with SWR Institute's Sealants—The Professional's Guide.
2. In optimum conditions, the depth of the sealant should be ½ the width of the joint. The sealant joint depth (measured at the center) should always fall between the maximum depth of ½" and the minimum depth of ¼".
3. When using as a roof tile adhesive, make sure surfaces are clean and dry.

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.

APPLICATION**GENERAL APPLICATIONS**

1. MasterSeal NP 125 comes ready to use. Apply using professional grade caulking gun. Do not open cartridges or cans until preparatory work has been completed.
2. Apply a bead of MasterSeal NP 125 sufficient enough in size to make a bond between the two substrates.

ROOFING APPLICATIONS

1. For roofing applications, ensure a sufficient amount of MasterSeal NP 125 is applied to make a bond between the two tiles on the upper surface of the downslope tile. Then install the upslope tile and press into the bead of MasterSeal NP 125 to ensure good contact between the adhesive and both tiles.
2. Install the upslope tile and press into the bead of MasterSeal NP 125 to ensure good contact between the adhesive and both tiles.

CURING TIME

The cure of MasterSeal NP 125 varies with temperature and humidity. The following times assume 75° F (24° C), 50% relative humidity, and a joint ½" width by ¼" depth (13 by 6 mm).

- Skins: 10–15 minutes
- Full cure: approximately 2 weeks

CLEAN UP

1. Immediately after use, clean equipment with MasterSeal 990 or xylene. Use proper precautions when handling solvents.
2. Remove cured sealant by cutting with a sharp-edged tool.
3. Remove thin films by abrading.

FOR BEST PERFORMANCE

- 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.
- Not for use in glazing applications. Do not apply on glass and plastic glazing panels.
- MasterSeal NP 125 can be applied below freezing temperatures only if substrates are completely dry, free of moisture and clean. Contact Technical Service for more information.
- Lower temperatures and humidities will extend curing times.
- Pursuant to accepted industry standards and practices, using rigid paints and/or coatings over flexible sealants can result in a loss of adhesion of the applied paint and/or coating, due to the potential movement of the sealant. However, should painting and/or coating be desired, it is required that the applicator of the paint and/or coating conduct on-site testing to determine compatibility and adhesion.
- Proper application is the responsibility of the user. Field visits by Master Builders Solutions personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

HEALTH, SAFETY AND ENVIRONMENTAL

Read, understand and follow all Safety Data Sheets and product label information for this product prior to use. The SDS can be obtained by visiting www.master-builders-solutions.com/en-us, e-mailing your request to mbsbscst@mbcc-group.com or calling 1(800)433-9517. Use only as directed.

IN CASE OF EMERGENCY: Call CHEMTEL +1 (800) 255-3924 or if outside the US or Canada, +1 (813) 248-0585.

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