



The Chemical Company

Distributed by: **BEST MATERIALS®**
Ph: 800-474-7570, 602-272-8128 Fax: 602-272-8014
www.BestMaterials.com Email: Sales@BestMaterials.com

7 | 07 92 00
**Joint
Sealants**

MasterSeal® NP 125

One-component, clear, elastomeric, gun-grade thermoplastic sealant and adhesive

FORMERLY SONOLASTIC® CLEAR 25™

PACKAGING

300 mL (10.1 fl. oz.) cartridges,
24 cartridges per carton

COLOR

White, Black, Clear, Dark Gray, and
Medium Bronze

YIELD

A ½" round bead will yield approximately
7.7 linear feet 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

2 years when properly stored

VOC CONTENT

315 g/L
less water and exempt solvents

DESCRIPTION

MasterSeal NP 125 is a one-component, high-performance, non-priming, gun-grade, thermoplastic adhesive and sealant. 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, helping to reduce labor costs
- Superior holding power for longer lasting seals
- Joint movement capability of 25% total provides excellent flexibility, keeping moving joints tightly sealed
- Easy to gun and tool, speeding up application and making neater joints
- Suitable for exterior applications (roofing)
- Bonds similar and dissimilar materials (see applications substrates below)
- Clear formula blends with any substrate color
- Weather resistant for long-lasting weathertight seals
- Wide temperature application range makes MasterSeal NP 125 suitable for all climates
- Compatible with non-rigid paints and can be painted

APPLICATIONS

- Residential
- Commercial
- Sheet roofing
- Liquid applied roofs
- Metal roofs
- Shingled and tiled roofs
- Between adjacent and rafter 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
- Concrete
- Masonry
- Aluminum
- Wood
- Vinyl
- Ceramic
- Porcelain
- Painted Metals
- Composite Materials
- Rubber
- Plexiglass
- Kynar
- Asphalt roof shingles

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)	> 500 (4.5)	ASTM D 412
Ultimate elongation at break, %	560	ASTM D 412
Rheological, (sag in vertical displacement) at 120° F (49° C)	No sag	ASTM C 639
Hardness, Shore A At standard conditions	35–40	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	25 - 30	ASTM C 679
Stain and color change	No visible stain	ASTM C 510
Adhesion in peel*, pli	Passes	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". Refer to Table 1.
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.

PRIMING

1. MasterSeal NP 125 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 MasterSeal P 173 or MasterSeal P 176, and consult Technical Service for additional information.
2. 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.

APPLICATION

1. MasterSeal NP 125 comes ready to use. Apply using professional grade caulking gun. Do not open cartridges until preparatory work has been completed.
2. Apply a bead of MasterSeal NP 125 sufficient in size to make a bond between the two tiles on the upper surface of the downslope tile.
3. 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
- Immersion service: 21 days

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 BASF 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.basf.us, e-mailing your request to basfbcst@basf.com or calling 1(800)433-9517. Use only as directed.

**For medical emergencies only,
call ChemTrec® 1(800)424-9300.**

LIMITED WARRANTY NOTICE

BASF warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. BASF MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price, at the sole option of BASF. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. BASF WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND.

Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on BASF's present knowledge and experience. However, BASF assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. BASF reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.