



The Chemical Company

SONOLASTIC® NP1™

Polyurethane joint sealant

DESCRIPTION

Sonolastic NP 1 is a versatile moisture-curing high performance polyurethane sealant with permanent elasticity.

RECOMMENDED FOR

Active, vertical and horizontal interior, exterior joints. Including expansion wall joints, floor and pavement joints, curtain walls, panel walls, precast walls, window frames, structural components, dams, spillways and stormwater drains. Substrates include concrete, masonry, aluminium and wood.

FEATURES AND BENEFITS

- **Joint movement capability \pm 35%**
Excellent flexibility for keeping moving joints tight
- **Available in pro-pack sausages**
Reduces job-site waste, lowers disposal costs
- **Easy to gun and tool**
Speeds application and makes neater joints
- **Variety of colours**
Matches common substrates
- **Bonds to most construction materials without a primer**
Lowers installation costs
- **One component**
No mixing, less labour
- **Weather resistant**
Long-lasting weathertight seals
- **Wide temperature application range**
Suitable for all climates
- **Paintable polyurethane sealant**
Best choice for structures that may be repainted
- **Low VOC content**
User friendly for applicators
- **Suitable for non-chlorinated water immersion**
Potable water approved

COMPLIANCES

- Federal Specification TT-S-00230C, Type II, Class A
- Corps of Engineers CRD-C-541, Type II, Class A
- ASTM C 920, Type S, Grade NS, Class 25, Use NT, M, A, G and I
- Canadian Specification CAN/CGSB-19 13-M87, Classification MCG-2-25-A-N, No.81026
- USDA approved for use in meat and poultry areas
- Canadian approval for use in establishments that handle food
- SWRI validated
- ISO 11600 F-25LM

PERFORMANCE DATA

Property	Test Method	Value (Average)
Movement capability (MAF)	ASTM C 719	\pm 35%
Tensile strength	ASTM D 412	2.4 MPa
Ultimate elongation at break	ASTM D 412	800%
Hardness at standard conditions (Shore A)	ASTM C 661	25-30
Hardness after heat aging, max. Shore A:50	ASTM C 661	25
Tack-free time (maximum 72 hrs.)	ASTM C 679	Passes
Stain and colour change	ASTM C 510	None
Volatile Organic Compounds (VOC)	SCAQMD Method 304-91	48g/litre
Service temperature range (°C)		-40 to 82
Potable water certified	AS/NZS 4020	1000m ² /L

The above data represents the information typically required to verify performance. For the full and comprehensive list of performance data, refer to "Application Guide & Performance Data for Sonolastic® Polyurethane Sealants" available from your local BASF Construction Chemicals representative.

ESTIMATING DATA

Joint Size (mm)	Metres per litre
5 x 5	40
10 x 10	10
12 x 12	6.95
15 x 7.5	8.88
20 x 10	5.00
25 x 12.5	3.20
30 x 15	2.22

APPLICATION

For information on **joint design**, **surface preparation** and **priming**, refer to Technical Note 17 "Application Guide & Performance data for Sonolastic Polyurethane Sealants" available from your local BASF Construction Chemicals representative.

Application

- **Sonolastic NP 1** comes ready to use. Apply by professional caulking gun. Do not open sausages until preparatory work has been completed.
- Fill joints from deepest point to the surface by holding a properly 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

- 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.
- UV exposure may cause white **Sonolastic NP 1** to discolour – this does not effect sealant performance; where maintaining a true white appearance is critical, use **Sonolastic Ultra Sealant**.
- Temperatures below 5°C will extend curing times.
- **Sonolastic NP 1** should not come in contact with oil-base caulking, silicone sealants, polysulfides, fillers impregnated with oil, asphalt, or tar.
- **Sonolastic NP1** can be painted over provided it is fully cured and cleaned. When painting over any elastomeric sealant, use a paint that is also elastomeric.
- Do not allow uncured **Sonolastic NP1** to come into contact with alcohol-based materials or solvents.
- When **Sonolastic NP1** is to be used in areas subject to continuous water immersion, cure for 21 days at 23°C and 50% relative humidity. Allow longer cure times at lower temperatures and humidities. Always use **Primer 733**.
- Do not use in swimming pool or other submerged conditions where the sealant will be exposed to strong oxidizers.
- Avoid submerged conditions where water temperatures will exceed 50°C.

CURING

The cure of **Sonolastic NP 1** varies with temperature and humidity. The following times assume 24°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.

Note: Deeper joints require longer curing period. Lower temperatures and humidities will extend curing times.

CLEANING

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

COLOURS

A complete line of standard colours is available including white, limestone, tan, aluminium grey, and black.

PACKAGING

Sonolastic NP 1 is packaged in 590 mL ProPack sausages, 20 sausages to a carton.

SHELF LIFE

Shelf life is 12 months when stored away from heat and direct sunshine.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Use only with adequate ventilation. Prevent contact with skin, eyes, and clothing. Wash thoroughly after handling. Use impervious gloves, eye protection and if used in a poorly ventilated area, use approved respiratory protection.

First Aid

In case of eye contact, flush thoroughly with water at least 15 minutes. SEEK IMMEDIATE MEDICAL ATTENTION.

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

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use. **BASF Construction Chemicals data sheets are updated on a regular basis and it is the user's responsibility to obtain the most recent issue.**

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF Construction Chemicals**, are responsible for carrying out procedures appropriate to a specific application.

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