



The Chemical Company

# SONOLASTIC<sup>®</sup> ULTRA

High performance polyurethane joint sealant

## DESCRIPTION

**SONOLASTIC Ultra** is a one component, moisture curing, aliphatic polyurethane sealant. Aliphatic technology ensures **SONOLASTIC Ultra** will be UV resistant, non-chalking, non-staining, self cleaning and non pick, resulting in unmatched durability.

## RECOMMENDED FOR

Active, exterior and interior joints that demand extreme UV resistance and long term colour integrity. **SONOLASTIC Ultra** can be used on both vertical and horizontal applications including trafficable surfaces on floors, panels, walls, window frames, curtain walls and precast panels. Substrates include concrete, masonry, brick, aluminium and timber.

Pick resistance finds applications in shop fronts, prisons, schools, public amenities and buildings.

## FEATURES AND BENEFITS

- **Aliphatic polyurethane technology**  
Non-staining, non-yellowing, non-chalking.
- **High UV resistance**  
No discolouration from sunlight
- **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
- **No surface tackiness**  
No dirt pickup, self-cleaning
- **Approved for potable water**

## COMPLIANCES

- Federal Specification TT-S-00230C, Type II, Class A when primed.
- ASTM C 920, Type S, Grade NS, Class 25. Use NT, M, A, G and I.
- Corps of engineers CRD C-541, Type II, Class A.
- USDA approved for use in meat and poultry areas.
- Canadian approval for use in areas that handle food.

## 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	Less than 72 hours
Stain and colour change	ASTM C 510	None
Volatile Organic Compounds (VOC)	SCAQMD Method 304-91	90g/litre
Service temperature range (°C)		-40 to 82
Potable water certified	AS/NZS 4020	2500m <sup>2</sup> /L

Note: The data represents 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 Ultra** 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 **SONOLASTIC Ultra** to come into contact with alcohol-based materials or solvents.
- Do not apply polyurethane sealants in the vicinity of uncured silicone sealants or uncured **SONOLASTIC 150** or **150 Tint Base**.
- **SONOLASTIC Ultra** should not come in contact with oil-based caulking, silicone sealants, polysulfides or fillers impregnated with oil, asphalt or tar.
- When **SONOLASTIC Ultra** is to be used in areas subject to water immersion, cure for 21 days at 25°C and 50% relative humidity. Allow longer cure time at lower temperatures and 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.
- **SONOLASTIC Ultra** can be applied below freezing temperatures only if substrates are completely dry, free of ice or frost, and clean.
- Low temperatures will extend curing times.
- Substrates such as copper, stainless and galvanized typically require the use of a primer; **Primer 733** or **766** are acceptable. For Kynar coating use **Primer 733** only. An adhesion test is recommended for any other questionable substrate.
- Proper application is the responsibility of the user. Field visits by BASF Construction Chemicals Technical Representatives are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

## COLOURS

Choice of standard colours are available including white, aluminium-grey.

## CURING

The cure of **SONOLASTIC Ultra** 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 **SONOSHIELD Thinner**. Use proper precautions when handling solvents.
- Remove cured sealant by cutting with a sharp edge tool.
- Remove thin films by abrading.

## PACKAGING

- 590ml Pro Pak sausages, 20 sausages to a carton

## SHELF LIFE

Shelf life is 1 year for cartridges and sausages in their original, unopened packaging under normal conditions.

## PRECAUTIONS

Use only with adequate ventilation. Prevent contact with skin, eyes, and clothing. Wash thoroughly after handling. Use impervious gloves, eye protection and if the TLV is exceeded or used in a poorly ventilated area, use approved respiratory protection.

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** 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.

## 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**, are responsible for carrying out procedures appropriate to a specific application.

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