

## TECHNICAL DATA SHEET

### DESCRIPTION

Casica Alpha 1 is a one-component, non-sag MS hybrid sealant that is ideal for a wide range of applications where a long-term, durable seal or bond is required. Alpha 1 is 100% solids, non-shrink, and has a very low odor which makes it ideal for confined or occupied work spaces. Its hybrid technology allows for bonding and sealing across a wide range of temperatures and Alpha 1 can withstand moisture, performing well in damp and wet environments. A high-strength product with great flexibility, Alpha 1 accommodates moderate joint movement while adhering to a long list of common building substrates.

### USE

Alpha 1 can be used on a variety of substrates. Please inquire or test your substrates before use. Some common substrates:

- Ceramics
- Fiberglass
- Glass
- Granite
- Marble
- Aluminum & Galvanized Metal
- Wood
- EPDM
- EPS or Styrofoam Insulation
- Porcelain
- PVC & Other Plastics
- Porous Surfaces (Concrete, Brick, Etc.)
- Can be used on additional substrates not listed.

### FEATURES

- Non-Sag, can be used for vertical/overhead applications
- Available in 6 colors
- Easy to dispense and tool at a variety of temperatures
- Resistant To UV Degradation and Weathering
- 25% Joint Movement Capability
- Will not wash off with rain or moisture
- Cures even when water or moisture is present
- Low odor, Eco-Friendly formula
- Paintable Within 24 Hours Of Application

### PROPERTIES

ASTM C920 Class 25, Type S, Grade NS, Use NT, A, M, G & O  
 TT-S-00230-C Type II, Class B  
 Conforms To California Proposition 65  
 Conforms To USDA Requirements For Non-Food Contact

### Test Results

Strength development will begin immediately and increase for 7 days after application.

Density (ASTM D1475)	13.8 lbs/gal
Hardness- Shore A (ASTM C661)	27
Modulus (ASTM D412)	85 psi
Tensile Strength (ASTM D412)	200 psi
Elongation (ASTM D412)	430%
Lap Shear (ASTM D412)	280 psi
QUV (ASTM G26)	Pass (4,000 hours)
Viscosity (Spindle #7)	650,000 cps
Skin Formation	30 minutes (70°F, 50% RH)
Cure in Depth - 7 days	12mm (70°F, 50% RH))
Service Temperature	-50°F to 220°F
Gun-ability	Pass: Non-sag

### Note:

It is the responsibility of the installer/applicator to ensure the suitability of the product for its intended use.

### voc

Alpha 1 has a VOC of less than 10 g/L. Compliant with all Canadian and U.S. VOC regulations including Federal EPA, OTC, LADCO, SCAQMD & CARB.

### Packaging

PRODUCT CODE	PACKAGE	COLOR	SIZE	
			Ounce	Milliliters
101673	Cartridge	Gray	10	295.7
101901	Cartridge	White	10	295.7
101902	Cartridge	Black	10	295.7
101903	Cartridge	Limestone	10	295.7
101904	Cartridge	Bronze	10	295.7
101905	Cartridge	Sandstone	10	295.7
113798	Sausage Pack	Gray	20.0	591
101684	20 OZ Sausage Gun - Manual			

### STORAGE

When stored at 70°F and 50% RH, Alpha 1 has a shelf-life of 12 months in cartridges. When stored at 70°F and 50% RH, Alpha 1 has shelf-life of 6 months in pails and drums. High temperature and high humidity can significantly reduce shelf-life.

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### Surface Preparation:

All surfaces should be clean. Alcohol can be used to clean the surface. DO NOT USE petroleum based solvents. Priming for Alpha 1 is not normally required for applications to nonporous surfaces. Unprimed adhesion can be easily tested by applying a small trial bead and allowing 7 days for maximum adhesion to occur.

### APPLICATION

Alpha 1 is an excellent sealant/adhesive for many Residential, Commercial, Industrial and Construction applications including:

- Joint Sealant Applications
- Walk-In Freezer Manufacturing & Installation
- General Construction Applications
- Industrial Manufacturing Applications
- Roofing Applications
- Pre-cast Concrete Applications
- Window & Door Installation
- Weather Sealing Applications
- HVAC Applications
- Appliance Manufacturing
- Masonry Applications

### Placement:

Alpha 1 is ready to use and requires no mixing or additives. Tooling, if necessary, should be done before skinning takes place. In applications where partial or total confinement of sealant is prevalent, the time required for proper cure is generally lengthened by the degree of confinement. Higher temperature and higher humidity will accelerate skin & cure time. Cold temperatures and low humidity will slow down skin & cure time.

### CURING

Allow 7 days for maximum strength to develop before testing adhesion or strength.

### CLEAN UP

Wet adhesive can be cleaned with alcohol or Dayton Superior Citrus Cleaner J48. Dry sealant can be removed by abrading or scraping with Dayton Superior Citrus Cleaner J48.

### LIMITATIONS

#### FOR PROFESSIONAL USE ONLY

Do not store at elevated temperatures. Use only on clean surfaces free of contaminants. Cold temperature and low humidity will slow curing (32°F and below will be most significant). Do not use on olefins such as polyethylene, polypropylene or TPO prior to testing. Test all paints before application. Allow treated wood & asphalt to cure 6 months before application. Long-term submersion under water can cause loss of adhesion on some substrates.

### PRECAUTIONS

#### READ SDS PRIOR TO USING PRODUCT

- Wear protective clothing, gloves and eye protection (goggles, safety glasses and/or face shield)
- Use with adequate ventilation
- Keep out of the reach of children
- Do not take internally
- In case of ingestion, seek medical help immediately
- If skin contact occurs, wash immediately with soap and water and seek medical help as needed.
- If eye contact occurs, flush immediately with clean water and seek medical help as needed
- Dispose of waste material in accordance with federal, state and local requirements

### MANUFACTURER

Dayton Superior Corporation  
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Miamisburg, OH 45342  
Customer Service: 888-977-9600  
Technical Services: 877-266-7732  
Website: [www.daytonsuperior.com](http://www.daytonsuperior.com)

## TECHNICAL DATA SHEET

### WARRANTY

Dayton Superior Corporation ("Dayton") warrants for 12 months from the date of manufacture or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Dayton, the product is free of manufacturing defects and conforms to Dayton's product properties in force on the date of acceptance by Dayton of the order. Dayton shall only be liable under this warranty if the product has been applied, used, and stored in accordance with Dayton's instructions, especially surface preparation and installation, in force on the date of acceptance by Dayton of the order. The purchaser must examine the product when received and promptly notify Dayton in writing of any non-conformity before the product is used and no later than 30 days after such non-conformity is first discovered. If Dayton, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the non-conforming product, refund the purchase price or issue a credit in the amount of the purchase price. This is the sole and exclusive remedy for breach of this warranty. Only a Dayton officer is authorized to modify this warranty. The information in this data sheet supersedes all other sales information received by the customer during the sales process. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.

Dayton shall not be liable in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injury), or economic losses of any kind; or for any special, incidental, indirect, consequential, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, its obligations under any contract for sale of product, even if Dayton could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this contract, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.