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Closing The Gap

One-Component Vs. Two-Component Sealants

From: [Bostik Blog](#), *UNDERSTANDING ONE-COMPONENT VS. TWO-COMPONENT SEALANTS FOR BUILDING CONSTRUCTION PROJECTS*, Bostik Smart Adhesives

Sealants offer a range of applications in both the commercial and residential construction markets. From sub-floors and stairs to windows and roofs, choosing the right product is vital to ensuring safe and proper installation. Currently, there are two types of sealant technologies on the market: one-component and two-component.

One-Component Sealants

Offering general sealant use for a range of applications, one-component sealants are composed of one base component and do not need to be mixed with anything prior to application.

One-component sealants:

- Offer ease of preparation prior to installation
- Require exposure to moisture in the air to cure
- Cure from the exposed surface down

Two-Component Sealants

Two-component sealants are typically used for waterproofing applications. Composed of a base component and activator component, these sealants require mixing equipment for preparation and application. Most of the time, two-components are colorless, and a color pack must be added separately.



- Cure quickly and uniformly without exposure to atmosphere
- Have extended shelf life
- Are often colorless
- Offer wider color availability via a color pack in smaller sealant amounts (sometimes as little as 1 unit or 1.5 gallons of sealants or increments of the same)

Typically, two-component sealants are sold in industry standard, unit cans that yield about 1.5 gallons of product each. The can contains the base material, and nested upon it is a second container for the curing agent (i.e., the “b-side”). The two must be mixed together fully in order to ensure proper curing. Once mixed, the product is expelled into a bulk gun, which can accommodate various sized nozzles to correctly install the sealant into joints.

For certain applications, two-component sealants can be packaged by the manufacturer into special cartridges with static mixers that mix the product as it is gunned. This saves time, since there is no need to manually mix the parts together.

When to Choose a One-Component or Two-Component

While both one-component and two-component sealants largely serve the same purpose in construction projects, several factors determine when to choose one over the other.

Joint Size

- Typically, manufacturers will recommend that two-component sealant when joints are greater than $\frac{3}{4}$ inches wide. Additionally, the specification may require a two-component due its curing properties in larger joints.

Skin and Cure Times

- Overall, the curing rate is relative to the technology and atmospheric conditions (temperature and moisture source). A sealant’s cure time is also dependent upon the location of the joints and their mass, width and depth. It’s important to be aware of the amount of open time (work life) you have before deciding to use a one-component or two-component sealant.



Application Needs

- As a general guideline, one-component sealants are used in joints less than 3/4" in width, where specified and by trades not properly trained to mix and install two-component products.
- Typically, two-components are for larger projects due to their volume. Professional water proofers often prefer this type of sealant.
- Single-component sealants are supplied ready for application and require no mixing. Multi-component sealants are mixed at the jobsite just before application.

Need the ease of a single-component sealant system? Our partner s at Carlisle Fluid Technologies just released their newest product, the [Devilbiss i-Flow GP](#) meter-based dispensing unit.

Looking for a dual-component sealant system? Check out the Nordson 's complete line of 2K metering systems [here](#).

Call your CIS representative today for more information on how to make the most of your business!



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i-Flow™ GP

Improved Performance, Lower Operating Cost

The i-flow GP is a packaged, versatile, shot meter based dispensing system which is easy to install and easy to use. This extremely accurate dispensing solution helps customers to improve Overall Equipment Effectiveness (OEE) by improving quality and reducing downtime while lowering installation and maintenance costs.

The Binks i-Flow GP provides superior dispense accuracy — providing process reliability, repeatability and better control of your dispense processes.

Configurations are available for a wide range of dispensing applications. The system can be easily integrated into most manufacturing protocols for cooperation with robots and other process controls.

FEATURES

Accurate Control

- Closed-loop control provides precision over a wide range of flow rates
- Extremely short response time to changes in material properties
- Smooth material flow through all reduces component wear and is perfect for shear-sensitive or filled materials

Interface and Integration

- Easy integration with most fieldbus protocols, including ProfiNet, Ethernet/IP and DeviceNet
- Intuitive touch-screen interface
- Automatic calibration for easy commissioning
- 32 programmable styles
- USB downloadable job logs, change logs and fault logs
- Histogram and graphical logs of last 15 jobs

For more information, click here to download the [Sales Literature](#)



Performance by design

Two-Component Dispensing Made Easy

Micro-Meter 2K

Precisely repeatable two-component metering series to meet tight-tolerance manufacturing requirements – simple to configure and easy to maintain

Series of durable two-component meters for dispensing 0.10 to 25 cc volume shots of material, up to 1,500 psi or 15 cc per second

- High Ratio and Volume Repeatability to Enhance Production Quality
- Simple to Install, Operate and Service to Prevent Manufacturing Downtime
- Compact, Light and Agile to Fit in All Production Environments

Nordson
SEALANT EQUIPMENT



COAST INDUSTRIAL SYSTEMS, INC.

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COMPANY OVERVIEW

Coast Industrial Systems, Inc. is the #1 supplier of painting and coating application equipment to the marine and manufacturing industries, and is proud to serve both San Diego and Mexico since 1986.

Coast Industrial Systems, Inc. has always placed the customer first, and strives for business excellence in all ways. Our friendly sales and customer service staff are knowledgeable, experienced and qualified to help meet your painting and coating application requirements, and to exceed your expectations.

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