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Bostik P795 Explained

FACTSHEET



GLOBAL LEADER IN ADHESIVE TECHNOLOGIES

Bostik is one of the largest adhesive and sealant companies. Worldwide, we employ some 6,000 people in 50 countries across five continents. Our customers come from diverse markets, most notably the industrial manufacturing, construction and consumer sectors.

SMART INNOVATIONS

Our smart identity is underpinned by innovation. We pursue innovation vigorously, applying the latest technological advances to developing 'smart' adhesives. Today, our commitment to innovation is as strong as ever. We innovate with our customers through a global R&D network, comprising three international Smart Technology Centres and 12 regional centres. And we differentiate our business through this investment. That's why 15% of Bostik sales come from products launched in the previous three years.

BOSTIK P795 SEAL'N'FLEX PREMIUM

Bostik P795 SEAL'N'FLEX PREMIUM is a New Generation one component user friendly low MDI fast curing high performance and durable polyurethane sealant. Bostik P795 SEAL'N'FLEX PREMIUM will not form bubbles during its curing process. Bostik P795 SEAL'N'FLEX PREMIUM is specifically developed as a universal sealant for sealing construction and expansion joints and joints in pedestrian walkways.



THE BASICS

The new Bostik P795 SEAL'N'FLEX PREMIUM is based upon a '**New Generation PU**', meaning that Bostik will supply a **low-isocyanate** and **high performance** sealant that will not cause a **bubbling skin** during curing. In addition its technical performance is such that it doesn't need a primer, is sag-free, **label-free**, odour-free and comes with an outstanding UV-resistance and **15 month shelf life**.

PERFORMANCE WISE

Bostik P795 SEAL'N'FLEX PREMIUM is equipped with European and American certificates:



For Europe: **EN 15651 CE Marking**

- EN 15651-1: F-EXT-INT-CC 25HM
- EN 15651-4: PW-EXT-INT-CC 25HM

For America: **ASTM C920-18** Standard Specification for Elastomeric Joint Sealants:

- ASTM C920-18 (Type S, Grade NS, Class 50, Use NT & M)

Accordingly the EU regulations Bostik P795 ticking the boxes of the highest available results; following a joint movement of 25%, offers an elastic recovery of more than 70% and a loss of volume below 10%.

American standards show that the P795 is even capable in dynamic joints movement of 50%.



CE Classification (Europe)

In today's world, globalization and harmonization become commonly used and familiar terms. This is also true at building standards and regulations. Within Bostik we embrace this movement and strive for a globalized standard which provide transparency and simplicity in sealing and bonding.

One of the most familiar, and for Europe mandatory standards in the sealant industry is the CE Classification, or also known as the standard EN 15651. This norm is divided into 4 categories:

- **EN 15651-1 Sealants for Facade**
- **EN 15651-2 Sealants for Glazing**
- **EN 15651-3 Sealants for Sanitary**
- **EN 15651-4 Sealants for Pedestrian Walkways**

Type testing

The objective of type testing is to determine the type of product as set out in EN 15651 and, where applicable, to define the intended use in more detail. Type testing consists of a complete series of tests that are to be executed according to the standard for a certain product type. Type testing must be executed by a notified testing laboratory. The only exception to this are Type F-INT sealants ("interior facade applications"). This is the only case in which the manufacturer carries out type testing and determines product type.

Type testing must be carried out to determine the performance of the product placed on the market according to the specifications of the applicable European harmonized product standard (i.e. EN 15651-1, EN 15651-2, EN 15651-3 or EN 15651-4).

EN 15651-1 Sealants for Facade

EN 15651-1 deals with the definition and the requirements for non-structural facade sealants. The areas in which these joint sealants are used are:

- Outside of a building
- Window and door frames, including visible faces in indoor areas

EN 15651-2 Sealants for Glazing

EN 15651-2 sets out definitions and requirements for non-structural, elastic joint sealants for sealing glazing in buildings. Included are glazing joints at an angle of 7° to the horizontal. The areas in which these joint sealants are used are:

- Glass to glass
- Glass to frames
- Glass to porous carrier materials

EN 15651-4 Sealants for Pedestrian Walkways

EN 15651-4 deals with the definition of and requirements on cold applied, non-structural, elastic sealants for movement joints in floors for interior and exterior use. Included in the scope are:

- Floor joints in pedestrian walkways
- Floor joints in surfaces with pedestrian traffic along with, e.g. trollies, etc.
- Floor joints in public areas
- Movement joints between concrete slabs, e.g. in balconies, terraces and warehouses

| Application | Movement Capability | Class | Elastic Recovery | Loss of Volume |
|----------------|---------------------|--------------|------------------|----------------|
| Type F | ± 25% | 25LM 25HM | ≥ 70% ≥ 70% | ≤ 10% ≤ 10% |
| | ± 25% | 20LM 25HM | ≥ 60% ≥ 60% | ≤ 10% ≤ 10% |
| | ± 12,5% | 12,5E | ≥ 40% | ≤ 25% |
| | ± 7,5% | 7,5P | < 40% | ≤ 25% |
| Type G | ± 25% | 25LM 25HM | ≥ 70% ≥ 70% | ≤ 10% ≤ 10% |
| | ± 20% | 20LM 25HM | ≥ 60% ≥ 60% | ≤ 10% ≤ 10% |
| Type PW | ± 25% | 25LM 25HM | ≥ 70% ≥ 70% | ≤ 10% ≤ 10% |
| | ± 20% | 20LM 25HM | ≥ 60% ≥ 60% | ≤ 10% ≤ 10% |



ASTM INTERNATIONAL (American Society for Testing and Materials)

The ASTM C920-18 'Standard Specification for Elastomeric Joint Sealants' covers the properties of a cured single- or multicomponent cold-applied elastomeric joint sealant for sealing, caulking, or glazing operations on buildings, plazas, and decks for vehicular or pedestrian use, and types of construction other than highway and airfield pavements and bridges. A sealant qualifying under this specification shall be classified as to type, grade and class.

Type

Type defines whether products are premixed or require mixing at the jobsite as follows:

- Type S products are those supplied in pre-packaged cartridges or other forms in which no jobsite mixing is required.
- Type M products are those supplied in two or more parts for mixing at the jobsite. Multicomponent products include those with two components consisting of a base and a catalyst or with three components consisting of not only a base and catalyst but also a separate colour component. Multicomponent products cure faster than their single-component counterparts

Grade

Grade defines the flow characteristics of the sealant as follows:

- Grade P products have sufficient flow to fill joints in horizontal surfaces and remain level and smooth at temperatures as low as 40 deg. F (5°C). This designation generally applies to products rated for traffic use.
- Grade NS products are suitable for installation in joints in vertical surfaces without sagging at temperatures between 40 and 122 deg. F (5 and 50°C). This designation can apply to sealants classified for both traffic and non traffic uses. They can be installed in traffic joints in sloping horizontal surfaces where a self-levelling type would flow downhill.

Use

Use classifications related to joint substrates are designated as follows:

- Use T classifies sealants designed for joints in surfaces subject to pedestrian and vehicular traffic.
- Use NT classifies sealants designed for nontraffic exposures.
- Uses M, G, and A refer to sealants that remain adhered, within given parameters, to various standard specimens including, respectively, mortar (M), glass (G), and aluminium (A) when tested for cyclic movement and adhesion-in-peel. It is important to understand that the specimens related to these designations are not those specified for the Project but those that comply with restrictive material specifications in the ASTM test methods. Mortar is always Portland cement mortar, glass is clear float glass, and aluminium is clear anodized aluminium of a specific alloy. These standard substrates are covered in ASTM C 1375, Guide of Substrates Used in Testing Building Seals and Sealants.
- Use O refers to substrate materials other than M, G, and A. Unless it is definitely known that the joint substrate materials for the Project are identical to the materials designated by M, G, and A, retain Use O.

| | Use | Movement Capability | |
|-------------------------------|--------------------------|---------------------|--------------------------------------|
| Type S Single Comp. | T Traffic | Class 100/50 | 100% expansion 50% compression |
| Type M Multi Comp. | NT Non Traffic | Class 50 | 50% expansion 50% compression |
| | I Immersed | Class 35 | 35% expansion 35% compression |
| Grade NS Non sag | M Mortar | Class 25 | 25% expansion 25% compression |
| | G Glass | Class 12,5 | 12,5% expansion 12,5% compression |
| Grade P Pourable | A Aluminium | | |
| | O Other | | |