



# Grabs & Adhesives

SMART BONDING SOLUTIONS FOR THE PROFESSIONAL





### **BOSTIK, SMART ADHESIVES**

The new logo and the new house style with the characteristic green gecko is more than just a visual appearance. “Smart Adhesives” is a reflection of our positioning with regard to the development of smart and innovative sealing and bonding solutions that are safe, flexible and efficient.

We develop innovative sealing and bonding solutions that, whatever is constructed, connected or built, are smarter and can adjust better to the forces and challenges in our daily life.

### **THE GECKO - INSPIRING ADHESION**

For centuries, scientists have been inspired by geckos because of their unique bonding mechanism. They can stick to almost any surface, can climb super-fast against smooth polished glass and can easily carry their entire body weight with just one toe.

The Bostik gecko is flexible, easy to adapt to environments, is open to new situations and is courageous. It symbolizes Bostik’s smart and innovative sealing and bonding solutions for the challenges which today’s market faces.

# 1. Introduction

### **Over 130 Years of Innovation**

Bostik is the world’s preferred adhesive brand. Since 1889, Bostik has registered and marketed more than 9,000 patents. Innovation is in our DNA. Innovations covering everything from advanced aerospace adhesives to Blu-Tack for the consumer market.

### **Smart Adhesives**

At Bostik, we imagine a wide range of product systems and solutions that make our world safer, more flexible, efficient and responsive to the dynamic challenges of our environment. As the technological demands of the building and construction and manufacturing industries have grown, we have followed pace, developing innovative adhesives to make whatever is assembled or constructed smarter and more adaptive to our customers’ needs.

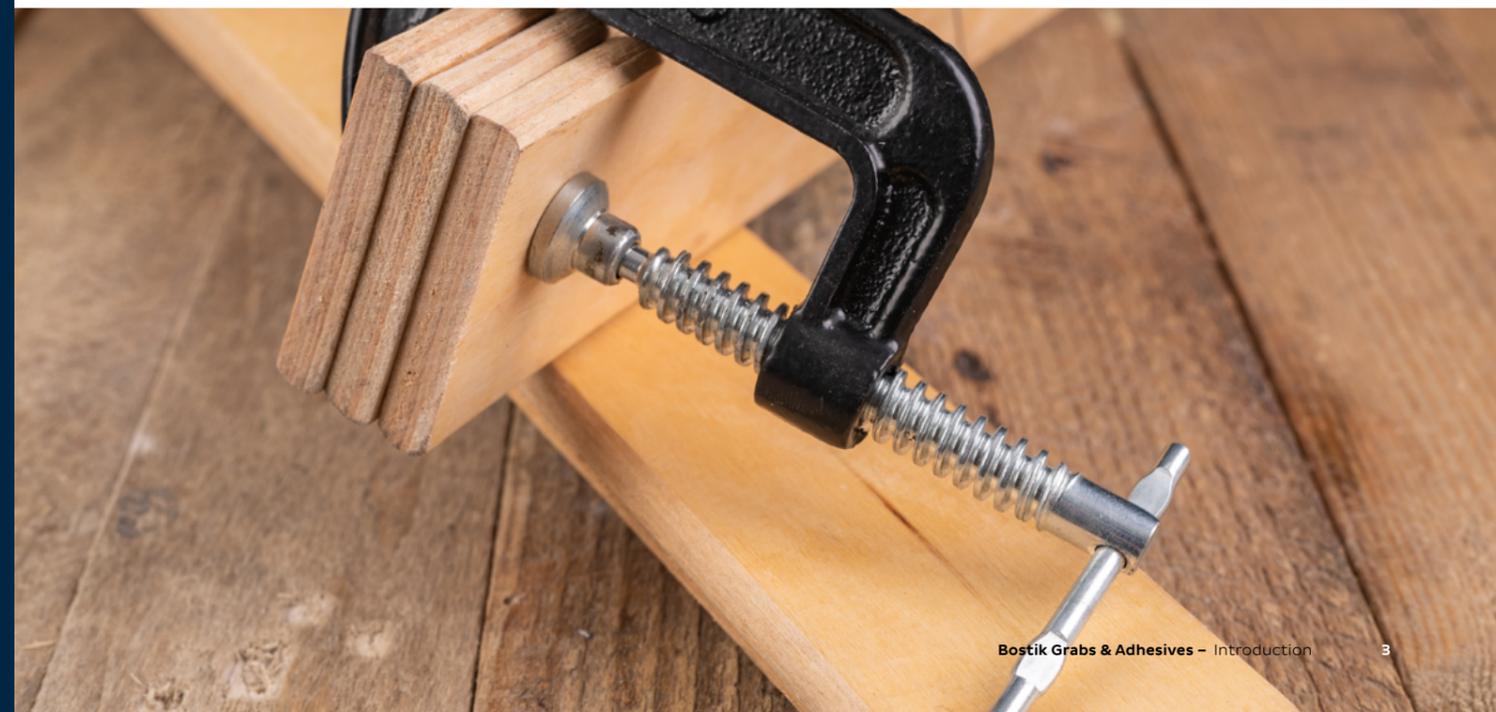
### **Extreme flexible and durable Solutions**

We’ve been innovating in the field of elastic bonding for decades, pioneering flexible adhesives for industrial and construction markets. These sophisticated

solutions possess superior durability, withstanding consistent and intense levels of contraction, elongation, and energy-absorption. Our unique elastic bonding technology is present in a diverse range of Bostik products for professionals and consumers as well as manufacturers.

### **Bonding dissimilar materials**

The elastomeric backbone also provides flexibility, which becomes a critical requirement when bonding dissimilar materials. Substrate combinations like glass to metal, or wood to concrete tend to deform differentially when subjected to changes in temperature and humidity. Here, elastic bonds accommodate the relative deformation of the substrates without creating any stress that damages the assembly of the bonded materials. This ability to deform reversibly under applied loads also makes elastic bonds suitable as sealant materials. As well as exhibiting excellent aging properties, elastic bonds are notable for their efficiency.





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## 2. Bostik smart adhesive

### Bostik Smart Adhesives

Bostik has been active in the global market for more than 130 years. Because Bostik markets its products through three Strategic Global Business Units, many products, innovations and patents are not known to everyone.

Bostik's Global Business Unit Non-Woven was the first one, already in 1975 who developed successfully the first elastic attachment adhesive for diapers ever made. Bostik is a leading supplier to the manufacturers of baby care, feminine care and adult incontinence products.

Bostik's Global Business Unit Industry Adhesives entered in the early 50's the aerospace, appliance, automotive, assembly industries with our high-end adhesive solutions. Fact is that Bostik manufacture so many solutions for our strategic partners that you will almost certainly find or encounter an object that contains our adhesives every day.

We are here to support you in your daily work. We do that via Bostik's Global Business Unit Consumer & Construction.

Did you know that Bostik Consumer & Construction developed and launched already back in 1922 an innovative and environmental friendly wallpaper adhesive made out of potato starch? It was a German invention and was brought to the market under the brand Quelyd®.

The original brand was Quellhyd. 'Quellen' in the German language means water source. The extension 'hyd', has been reduced from hydrophobicity, meaning 'attracted to water'. The brand Quelyd® Launched an environmentally friendly breakthrough innovative adhesives which had to be diluted with water.

Bostik also developed and launched more than 20 years ago the one and only original high tack instant grab adhesive. Still till today unsurpassed. Appy, Stick and Done! Even heavy materials and without support. But also the new generation grab adhesives are Bostik innovations. What about an adhesive that will reach within 15 minutes a tensile strength of 75% of its final strength of 36 kg/cm<sup>2</sup>!



# 3. What is an adhesive?



## What is an adhesive?

An adhesive is a substance capable of holding materials together in a functional manner by surface attachment that resists separation. Adhesive is more a general term. Within the building and construction world, an adhesive is a flexible material that is used to bond two or more substrates together where strength is required. In technical terms an adhesive does have roughly a shore A hardness above 40 and an E-module above 0.7 N/mm<sup>2</sup>.

## Type of adhesives

Adhesives come in a variety of chemistry, for a multitude of applications. In general adhesives can be divided into two types; structural adhesives and non-structural adhesives.

## Structural Adhesives:

Structural adhesives or load-bearing adhesives are capable of holding two or more substrates together, bearing the forces involved for the lifetime of the product. Structural adhesives often need engineering solutions, starting with the necessary design calculations, testing and precise application procedures, such as panel bonding and structural glazing.

## Non-Structural Adhesives:

Non-structural adhesives bond a range of similar or dissimilar substrates wherever load-bearing strength is not required. A Non-structural adhesive is applied in a more generic type of application, where besides some general guidance on the correct procedures, no further special or restrictive measures are needed. The vast majority of non-structural adhesives are used on the construction site for adhering amongst others:

- Wide variety of building materials
- Waterproofing and other building membranes
- External Thermo Insulation Composite Systems (EPS, XPS boards)
- Decorative fittings and finishes

Non-structural adhesives are also of significant interest to the design engineer, and provide cost-effective solutions for the assembly of finished products.

## Cohesion or adhesion, that's the question

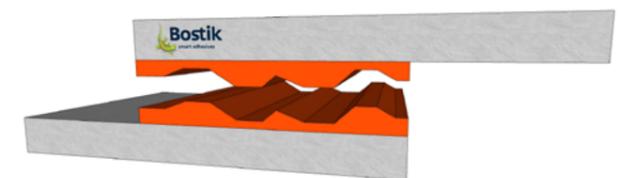
An adhesive is a substance capable of holding materials together in a functional manner by surface attachment that resists separation. More in detail, accordingly the EN923 and ASTM D907-06, 'an adhesion is defined as a non-metallic binder that acts via adhesion and cohesion'.

Adhesion and cohesion are two very important properties of an adhesive. Adhesion is the adherence between the adhesive and the substrate(s). Cohesion is the adherence within the adhesive itself, the adhesive inner strength.

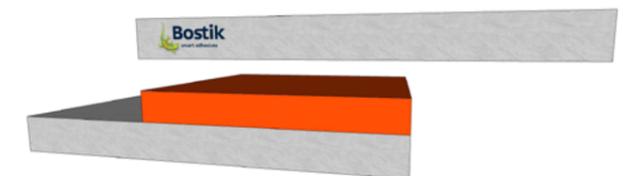
The one and only objective of an adhesive is to adhere to the adjacent materials, and withstand the internal stress caused by load, movement, humidity and temperature fluctuations.

In short, the adhesion is the adhering of materials to each other as where cohesion refers to the inner strength of a material. When the adhesive separates from the substrate, we refer to an adhesion failure. When the adhesive separates in the bulk layer of the bonding agent this is a cohesion failure.

The relationship between the forces of adhesion and those of cohesion is decisive for the strength of a bonded joint. Irrespective of how high the cohesion forces in an adhesive layer are, if there are no adhesion forces in effect, the adhesive will be incapable of fastening the two part together.



Cohesion failure



Adhesion failure

# 4. The route to a perfect bond

## The route to a perfect bond ...

Adhering offers many benefits vs. traditional mechanical assembly techniques. These benefits advantages range from even stress distribution, reducing risk of corrosion, gap filling/sealing capability, weight savings to automating manufacturing processes, enhancing quality, sound reduction, improving aesthetics and lowering production costs.

But how do you select the perfect product. Your main objective is to stick minimum two (dis-) similar products together.

Our minimum criteria to avoid bonding failures is obviously selecting the most appropriate adhesive compound. In our Sealing & Bonding portfolio we offer amongst others technologies such as acrylics, hybrids and polyurethanes. But are these compounds compatible with your substrate(s) and do they form a rigid or elastic bond? Please find the table at the next page with some basic answers to your questions.

## Step one

Step one in the process of finding the perfect bond, is to understand the substrates to adhere. What material are they made of and how do these products behave in the environment in which they have to be bonded?

## Step two

Step two is to determine the product, in this case the technology, compatibility with the substrates and what you are expecting from the products performance. The product should be capable of withstanding the environment it will be exposed to and maintain its properties over time. Conditions can range from temperature cycling, humidity, chemical exposures, different stresses, impact/vibration, shock and electrical insulation.

## Step three

Pre-treatment is step three, different surfaces will require different preparation procedures. Optimum bonding surfaces should be clean, dry and free from oil, grease, loose deposits and any other contamination. Adhesives can find a proper bond to painted surfaces, but powder coated surfaces might give adhesion problems due to the wax content.

| Portfolio                    | Adhesive Technology | Adhesive Type | Tensile Strength       | Substrates          | Application   | Unique feature               |
|------------------------------|---------------------|---------------|------------------------|---------------------|---------------|------------------------------|
| H350 SUPERGRIP MULTI PURPOSE | Hybrid              | Elastic       | 2.5 N/mm <sup>2</sup>  | Porous & non-porous | In- & outside | Universal                    |
| N305 SUPERGRIP FAST SET      | Neoprene            | Rigid         |                        | Porous & non-porous | In- & outside | Fast set and strong          |
| H515 SUPERGRIP ALL-IN-ONE    | Hybrid              | Rigid         | 3.7 N/mm <sup>2</sup>  | Porous & non-porous | In- & outside | Strong and fast cure         |
| P580 SUPERGRIP XTRA POWER    | Polyurethane        | Rigid         | 12.0 N/mm <sup>2</sup> | Porous & non-porous | In- & outside | Mega strong                  |
| H780 SUPERGRIP INVISIBLE     | Hybrid              | Elastic       | 3.2 N/mm <sup>2</sup>  | Porous & non-porous | Inside        | Transparent                  |
| H785 HIGH TACK               | Hybrid              | Elastic       | 2.22 N/mm <sup>2</sup> | Porous & non-porous | In- & outside | Direct tack                  |
| H910 SUPERGRIP FAST CURE     | Hybrid              | Rigid         | 3.7 N/mm <sup>2</sup>  | Porous & non-porous | In- & outside | Mega strong and extreme fast |
| H920 SUPERGRIP CLEAR         | Hybrid              | Elastic       | 2.2 N/mm <sup>2</sup>  | Porous & non-porous | Inside        | Transparent                  |
| H930 SUPERGRIP METALL        | Hybrid              | Elastic       | 3.2 N/mm <sup>2</sup>  | Porous & non-porous | In- & outside | Glossy metal appearance      |
| H960 SUPERGRIP MIRROR        | Hybrid              | Elastic       | 2.2 N/mm <sup>2</sup>  | Porous & non-porous | In- & outside | For all mirrors              |
| H980 HIGH TACK PREMIUM       | Hybrid              | Elastic       | 2.2 N/mm <sup>2</sup>  | Porous & non-porous | In- & outside | No staining                  |

Sometimes it could be wise to include abrasion in the surface preparation procedure. Plastic parts may contain residual mould release or wax on the surface which has to be removed with a suitable solvent.

Two part epoxy and polyurethane foam need to be mixed accurately by weight or volume. Inaccurate mix ratios can affect the properties and long term bonding ability.

Proper curing is also essential in obtaining the proper effectiveness under the various service conditions it will be exposed to. It should be noted that the cure speed will be influenced by the temperature and humidity.

Additionally the appropriate amount of pressure should be applied during the cure process. As shown above in the table, some adhesives do have a direct grip functionality, other once should be supported during the cure through time.

It is evenly important to apply the correct amount of adhesive. Too much can affect the cure through properties and will have a negative effect. Insufficient adhesive coverage can cause cracking or separation between the mating surfaces.

Voids and moisture absorption during the attachment process are of prime concern. Void can be caused by air entrapment which can be detrimental to the mechanical strength of the adhesive. Moisture absorption that accumulates during assembly can cause delamination.

- 1 Perfect adhesion
- 2 Good adhesion, clean with BOSTIK T100 UNIVERSAL CLEANER first
- 3 Use abrasive paper and clean with BOSTIK T100 UNIVERSAL CLEANER first
- 4 Part of system/concept of Bostik

Aerated concrete  
 Aluminum unpainted  
 Aluminum painted  
 Aluminum powder coated  
 Brick  
 Ceramic  
 Concrete  
 Copper  
 Enamel  
 EPDM  
 Glass  
 HPL Panels  
 Painted iron  
 Powder coated iron  
 Lead  
 Mirror  
 Neutral Stone  
 Polycarbonate  
 Polyester  
 Polystyrene: EPS  
 Polystyrene: XPS  
 Porcelain  
 Painted stainless steel  
 Powder coated stainless steel  
 Stone  
 Painted wood  
 Powder coated wood  
 uPVC  
 Zinc

| Portfolio                    | Application segment | 1 | 2 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 |  |  |   | 2 | 3 | 1 | 2 | 2 |
|------------------------------|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|--|--|---|---|---|---|---|---|
| H350 SUPERGRIP MULTI PURPOSE | Grabs & Adhesives   | 1 |   |   | 2 | 3 | 1 | 2 | 2 | 2 | 2 | 2 |   |  |  | 2 | 3 | 1 |   | 2 | 2 |
| N305 SUPERGRIP FAST SET      | Grabs & Adhesives   | 1 |   |   | 1 | 2 | 2 | 2 | 2 |   |   |   |   |  |  | 2 |   | 1 | 1 |   | 2 |
| P350 SEAL'N'BOND CONSTRUCT   | Grabs & Adhesives   | 1 | 2 | 3 | 1 | 1 | 1 |   |   |   |   | 1 | 2 |  |  |   |   | 1 | 1 |   | 2 |
| H515 SUPERGRIP ALL-IN-ONE    | Grabs & Adhesives   | 1 | 2 | 3 | 1 | 1 | 1 |   | 2 |   |   | 1 | 2 |  |  |   | 2 | 3 | 1 | 1 | 2 |
| P580 SUPERGRIP XTRA POWER    | Grabs & Adhesives   | 1 | 2 | 3 | 1 | 1 | 1 | 2 | 2 | 2 |   | 1 | 2 |  |  | 2 | 1 | 1 | 1 | 2 | 2 |
| H780 SUPERGRIP INVISIBLE     | Grabs & Adhesives   | 1 | 2 | 3 | 1 | 1 | 1 | 2 | 2 | 2 |   | 1 | 2 |  |  | 2 |   | 1 | 2 | 3 | 2 |
| H785 HIGH TACK               | Grabs & Adhesives   | 1 | 2 | 3 | 1 | 1 | 1 | 2 | 2 | 2 |   | 1 | 2 |  |  |   | 1 | 2 | 3 | 1 | 2 |
| H910 SUPERGRIP FAST CURE     | Grabs & Adhesives   | 1 | 2 | 3 | 1 | 1 | 1 | 2 | 2 | 2 |   | 1 | 2 |  |  |   | 1 | 2 | 3 | 1 | 2 |
| H920 SUPERGRIP CLEAR         | Grabs & Adhesives   | 1 | 2 | 3 | 1 | 1 | 1 | 2 | 2 | 2 |   | 1 | 2 |  |  |   | 1 | 2 | 3 | 1 | 2 |
| H930 SUPERGRIP METALL        | Grabs & Adhesives   | 1 | 2 | 3 | 1 | 1 | 1 | 2 | 2 | 2 |   | 1 | 2 |  |  |   | 1 | 2 | 3 | 1 | 2 |
| H960 SUPERGRIP MIRROR        | Grabs & Adhesives   | 1 |   |   | 1 | 1 | 1 |   | 1 |   |   |   |   |  |  |   |   |   |   |   |   |
| H980 HIGH TACK PREMIUM       | Grabs & Adhesives   | 1 | 2 | 3 | 1 | 1 | 1 | 2 | 2 | 2 |   | 1 | 2 |  |  |   |   |   |   |   | 2 |

| Portfolio                      | Application segment   | 1 | 2 | 3 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 |  |  |  |   | 2 | 2 | 3 | 1 | 1 | 2 | 2 | 2 |
|--------------------------------|-----------------------|---|---|---|---|---|---|---|---|---|---|---|--|--|--|---|---|---|---|---|---|---|---|---|
| H505 SEAL'N'BOND CRYSTAL       | General purpose       | 1 | 2 | 3 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 |  |  |  |   | 2 | 2 | 3 | 1 | 1 | 2 | 2 | 2 |
| H535 SEAL'N'BOND MULTI PURPOSE | General purpose       | 1 | 2 | 3 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 |  |  |  | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 2 | 2 |
| H550 SEAL'N'BOND ALL-IN-ONE    | General purpose       | 1 | 2 | 3 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 |  |  |  | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 2 | 2 |
| H750 SEAL'N'BOND PREMIUM       | General purpose       | 1 | 2 | 3 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 2 |  |  |  | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 2 | 2 |
| A545 DECO ADHESIVE             | Decoration & paint    | 1 |   |   | 1 | 1 |   |   |   |   |   |   |  |  |  |   | 1 | 1 |   |   | 1 | 1 | 1 | 1 |
| A630 FOIL'N'FIX INTERIOR       | Energy saving & Airt. | 1 |   |   | 1 | 1 |   |   |   |   |   |   |  |  |  |   | 1 | 1 |   |   | 1 | 1 | 1 | 1 |
| A785 HIGH GRIP DECO            | Decoration & paint    | 1 |   |   | 1 | 1 |   |   |   |   |   |   |  |  |  |   | 1 | 1 |   |   | 1 | 1 | 1 |   |
| H640 FOIL'N'FIX EXTERIOR       | Energy saving & Airt. | 1 | 2 | 3 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 |  |  |  | 2 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 2 |
| H955 FOIL'N'FIX PREMIUM        | Roofing               | 1 |   |   | 1 | 1 |   |   |   | 1 |   |   |  |  |  |   |   |   |   |   | 1 | 1 | 1 | 1 |
| H970 PANELTACK MM              | Panel & insulation    |   |   |   |   |   |   |   |   |   |   | 4 |  |  |  |   |   |   |   |   |   |   |   |   |
| H975 PANELTACK HM              | Panel & insulation    |   |   |   |   |   |   |   |   |   |   | 4 |  |  |  |   |   |   |   |   |   |   |   |   |
| P325 FOAM'N'FIX 2C B3          | Expanding foam        | 1 |   |   | 1 | 1 | 1 |   |   |   |   |   |  |  |  |   |   |   |   |   | 1 | 1 | 1 |   |
| P345 FOAM'N'FIX 2C B2          | Expanding foam        | 1 |   |   | 1 | 1 | 1 |   |   |   |   |   |  |  |  |   |   |   |   |   | 1 | 1 | 1 |   |
| P530 FOAM'N'FIX STONE B3       | Garden & landsc.      | 1 |   |   | 1 | 1 | 1 |   |   |   |   |   |  |  |  |   |   |   |   |   | 1 | 1 | 1 |   |
| P535 FOAM'N'FIX STONE PRO B3   | Garden & landsc.      | 1 |   |   | 1 | 1 | 1 |   |   |   |   |   |  |  |  |   |   |   |   |   | 1 | 1 | 1 |   |
| P555 FOAM'N'FIX TURBO B2       | Expanding foam        | 1 |   |   | 1 | 1 | 1 |   |   |   |   |   |  |  |  |   |   |   |   |   | 1 | 1 | 1 |   |
| P565 FOAM'N'FIX 2C B1          | Expanding foam        | 1 |   |   | 1 | 1 | 1 |   |   |   |   |   |  |  |  |   |   |   |   |   | 1 | 1 | 1 |   |
| P575 PANELTACK EIFS PRO B3     | Panel & insulation    | 1 |   |   | 1 | 1 | 1 |   |   |   |   |   |  |  |  |   | 4 | 4 |   |   | 1 | 1 | 1 |   |
| P745 FOAM'N'FIX B2             | Expanding foam        | 1 |   |   | 1 | 1 | 1 |   |   |   |   |   |  |  |  |   |   |   |   |   | 1 | 1 | 1 |   |
| P775 PANELTACK EIFS PRO B2     | Panel & insulation    | 1 |   |   | 1 | 1 | 1 |   |   |   |   |   |  |  |  |   |   |   |   |   | 4 | 4 | 1 | 1 |
| P975 PANELTACK EIFS PRO B1     | Panel & insulation    | 1 |   |   | 1 | 1 | 1 |   |   |   |   |   |  |  |  |   |   |   |   |   | 4 | 4 | 1 | 1 |
| S970 PANELTACK S               | Panel & insulation    |   |   |   |   |   |   |   |   |   |   | 4 |  |  |  |   |   |   |   |   |   |   |   |   |

Please be aware that you need to investigate with this table if your selected product will also adhere to your second substrate. Take in consideration that we have two types of wood, softwood and hardwood. Each type comes with different species with different behaviour. Please always test the adhesion upfront the application! For the concepts such as Panel & insulation and Energy Saving & Airtight, please contact your local technical sales department for a proper product or system recommendation.



### ... and a perfect long lasting result

Once you have select the correct adhesive, please take in consideration that your adhesion surfaces of the substrates to bond are strong enough to bear the load! Adhering heavy objects to painted or rendered substrates, can cause a delamination of the paint or render from the substrate.

Also take in consideration that the bond surfaces should be clean. For an optimum durable connection, surfaces should be clean, dry and free from oil, grease, loose surface deposits and any other contamination.

When surfaces are coated, we will recommend at least to use BOSTIK T100 UNIVERSAL CLEANER and even better to use a fine abrasive paper to slightly roughen the surface prior to the cleaning.

Dusty surfaces can be pre-treated with a brush to remove loose particles.

If substrates are very porous, the use of BOSTIK T300 UNIVERSAL PRIMER will increase the bond of and the durability of the applied adhesive.

Make sure you press the substrate sufficient to assure an optimum wetting of both surfaces with the adhesive. During the pressing phase, the objects can slightly be (re-)positioned during the adhesives 'open time'.

The Bostik high initial grip adhesives, like BOSTIK H785 HIGH TACK and BOSTIK H980 HIGH TACK PREMIUM, do not require a temporarily fixing during the curing process. Please read the Bostik FactSheet about initial grab, to learn more about this topic.

As all technologies behave different during the curing phase, we need to keep in mind how to apply the adhesive. First of all we will always recommend vertical adhesive beads, so moving air can abduct humidity released by the water-based adhesives and solvents, obvious from solvent-based adhesive. But the moving air can bring the required moisture to the reactive adhesive systems that is needed to cure.

# 5. Application areas



**BOSTIK H515  
SUPERGRIP ALL-IN-ONE**  
Powerful fast curing  
grab adhesive  
See page 21 for more details.



**BOSTIK H350  
SUPERGRIP MULTI PURPOSE**  
Durable flexible  
multi-purpose grab  
adhesive  
See page 22 for more details.



**BOSTIK H980  
HIGH TACK PREMIUM**  
Non-staining instant grab  
adhesives with extreme  
strength  
See page 17 for more details.



**BOSTIK H910  
SUPERGRIP FAST CURE**  
Unique extreme fast curing  
power adhesive  
See page 19 for more details.



**BOSTIK H780  
SUPERGRIP INVISIBLE**  
Universal crystal clear  
adhesive for interior use  
See page 20 for more details.



**BOSTIK H920  
SUPERGRIP CLEAR**  
Universal crystal clear  
adhesive  
See page 18 for more details.



**BOSTIK H930  
SUPERGRIP METAL**  
Premium hybrid adhesive  
for metal substrates  
See page 18 for more details.



**BOSTIK P580  
SUPERGRIP XTRA  
POWER**  
Water resistant power  
adhesive  
See page 20 for more details.



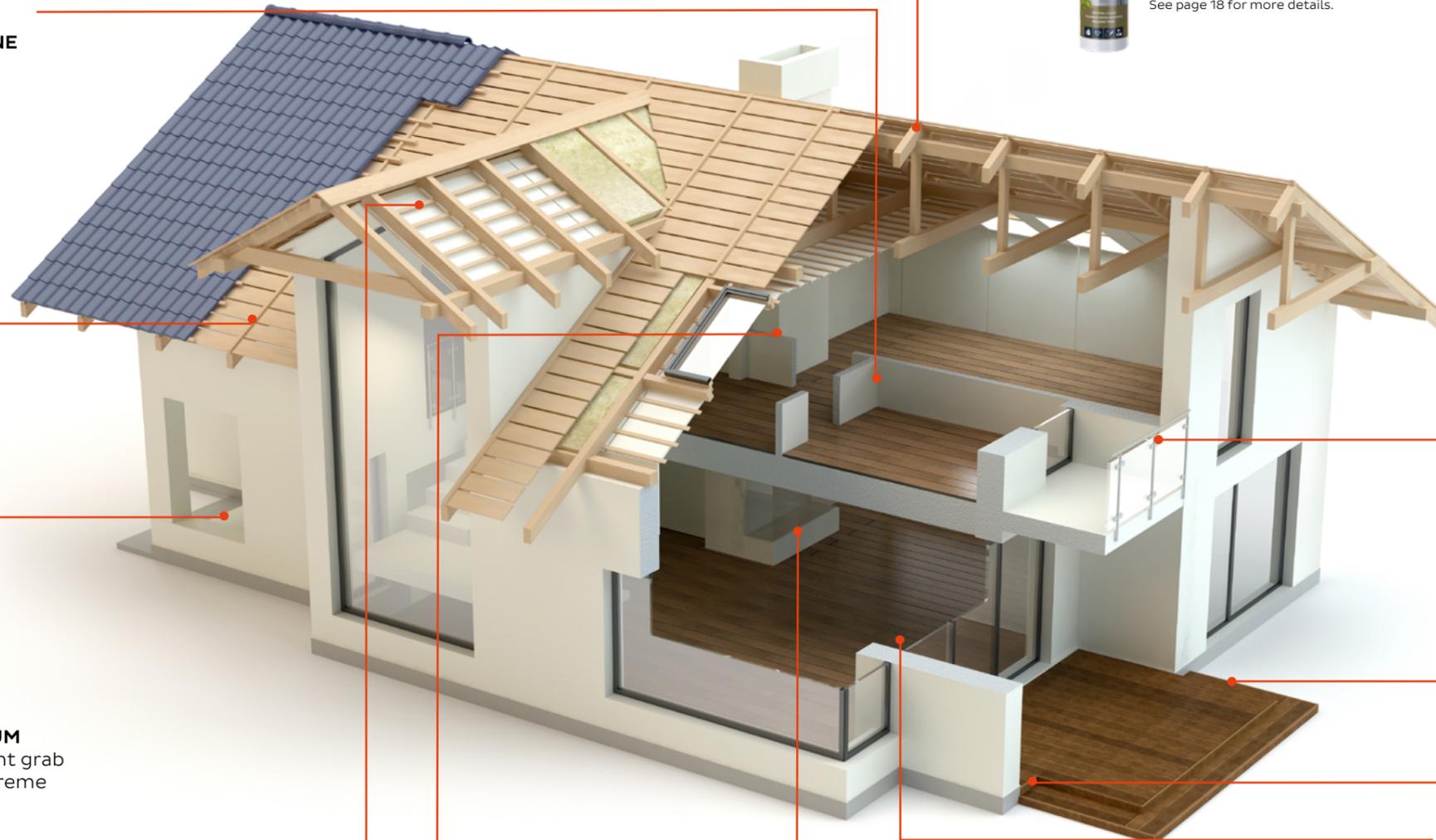
**BOSTIK H785  
HIGH TACK**  
Ultra-strong instant  
grab adhesive  
See page 19 for more details.



**BOSTIK H960  
SUPERGRIP MIRROR**  
Direct tack and strong  
mirror adhesive  
See page 17 for more details.



**BOSTIK N305  
SUPERGRIP FAST SET XTRA**  
Multi-purpose instant  
grab adhesive  
See page 22 for more details.



# 6. Portfolio

## BOSTIK H980 HIGH TACK PREMIUM

Non-staining instant grab adhesives with extreme strength

### Product description

BOSTIK H980 HIGH TACK PREMIUM surpasses the original HIGH TACK formulation. Bostik offers the highest initial tack performances and powerful strength, but includes now the stain free application on expensive natural stone and very porous surfaces as well.

### Most important characteristics

- Non-staining, suitable for natural stone
- Extreme high initial tack, time saving
- Free of isocyanates and solvents
- Durable elastic
- Non corrosive to metals
- Good resistant to weather and moisture
- Adheres perfectly without primer on most, even damp, surfaces

### Certificates

- EMI CODE EC1 Plus – very low emission
- Finnish M1
- A+ French VOC Regulation



| Packaging        | Packed per            | Colour |
|------------------|-----------------------|--------|
| 290 ml cartridge | 12 cartridges per box | white  |

## BOSTIK H960 SUPERGRIP MIRROR

Direct tack and strong mirror adhesive

### Product description

BOSTIK H960 SUPERGRIP MIRROR is a high initial professional hybrid mirror adhesive.

### Most important characteristics

- Specifically for bonding mirrors
- Compatible with most common silver backing coatings
- Time saving
- Extremely high initial tack
- Excellent tensile strength
- Free of isocyanates and solvents
- Neutral curing, almost odourless

### Certificates

- EMI CODE EC1 Plus – very low emission
- Finnish M1
- A+ French VOC Regulation



| Packaging        | Packed per            | Colour |
|------------------|-----------------------|--------|
| 290 ml cartridge | 12 cartridges per box | white  |





**BOSTIK H930 SUPERGRIP METAL**  
Premium hybrid adhesive for metal substrates

**Product description**  
BOSTIK H930 SUPERGRIP METAL is a powerful adhesive with a proper metal appearance.

- Most important characteristics**
- Perfect metal appearance
  - Non corrosive to metals
  - Applicable in food processing areas
  - Free of isocyanates and solvents
  - High mechanical strength of 3,20 N/mm<sup>2</sup>
  - Durable elastic
  - Neutral curing, almost odourless

- Certificates**
- ISEGA
  - EMICODE EC2
  - Finnish M1
  - A+ French VOC Regulation

| Packaging        | Packed per            | Colour |
|------------------|-----------------------|--------|
| 290 ml cartridge | 12 cartridges per box | metal  |

**BOSTIK H910 SUPERGRIP FAST CURE**  
Unique extreme fast curing power adhesive

**Product description**  
BOSTIK H910 SUPERGRIP FAST CURE is a high quality professional hybrid adhesive with a fast strength build-up and extremely high tensile strength. Within 15 minutes it reaches 80% of its final tensile strength of 3,7 N/mm<sup>2</sup>.

- Most important characteristics**
- Extreme fast curing and strength build-up (80% < 15 minutes)
  - High mechanical resistance
  - Cost saving due to thin adhesive layer of 2mm
  - Free of isocyanates and solvents
  - Neutral curing, almost odourless
  - Resistant to moisture and weather
  - Adheres perfectly to a wide range of building materials

| Packaging        | Packed per            | Colour |
|------------------|-----------------------|--------|
| 290 ml cartridge | 12 cartridges per box | white  |



**BOSTIK H920 SUPERGRIP CLEAR**  
Universal crystal clear adhesive

**Product description**  
BOSTIK H920 SUPERGRIP CLEAR is an universal high strength crystal clear hybrid adhesive.

- Most important characteristics**
- Universal crystal clear adhesive
  - Free of isocyanates and solvents
  - No shrinkage, bubble free curing
  - Adheres perfectly without primer to most surfaces
  - Neutral curing, almost odourless
  - Non corrosive towards metals
  - High mechanical strength and E-modulus

| Packaging        | Packed per            | Colour      |
|------------------|-----------------------|-------------|
| 290 ml cartridge | 12 cartridges per box | transparent |

**BOSTIK H785 HIGH TACK**  
Ultra-strong instant grab adhesive

**Product description**  
BOSTIK H785 HIGH TACK is a high quality professional hybrid adhesive with an extremely high initial tack.

- Most important characteristics**
- Direct tack, no support required
  - Suitable for BREEAM applications
  - High strength
  - No isocyanates, solvents and silicones
  - Permanently elastic
  - Neutral curing
  - No shrinkage
  - Resistant to moisture and weather influences
  - Adheres perfectly without primer on most, even damp, surfaces

- Certificates**
- Emicode EC1 Plus
  - M1
  - A+ French VOC Regulation

| Packaging        | Packed per            | Colour |
|------------------|-----------------------|--------|
| 290 ml cartridge | 12 cartridges per box | white  |





**BOSTIK H780 SUPERGRIP INVISIBLE**  
 Universal crystal clear adhesive for interior use

**Product description**  
 BOSTIK H780 SUPERGRIP INVISIBLE is a powerful adhesive with a proper metal appearance.

- Most important characteristics**
- Universal crystal clear adhesive
  - Free of isocyanates, solvents and silicones
  - No shrinkage, bubble free
  - Adheres perfectly without primer to most surfaces
  - Neutral curing, almost odourless
  - Non corrosive towards metals
  - High mechanical resistance and E-modulus
  - Absorbs acoustic and mechanical vibrations

- Certificates**
- ISEGA
  - En 15651-1:F-INT
  - A+ French VOC Regulation

| Packaging        | Packed per            | Colour      |
|------------------|-----------------------|-------------|
| 290 ml cartridge | 12 cartridges per box | transparent |



**BOSTIK H515 SUPERGRIP ALL-IN-ONE**  
 Powerful fast curing grab adhesive

**Product description**  
 BOSTIK H515 SUPERGRIP ALL-IN-ONE is a universal high strength hybrid adhesive with a quick strength build-up.

- Most important characteristics**
- Quick strength build-up
  - Free of isocyanates, solvents and silicones
  - Adheres perfectly without primer to most surfaces
  - Neutral curing, almost odourless
  - High mechanical strength

- Certifications**
- EC1 Plus
  - A+ French VOC Regulation

| Packaging        | Packed per            | Colour |
|------------------|-----------------------|--------|
| 290 ml cartridge | 12 cartridges per box | white  |



**BOSTIK P580 SUPERGRIP XTRA POWER**  
 Water resistant power adhesive

**Product description**  
 BOSTIK P580 SUPERGRIP XTRA POWER is a solvent free D4 water resistant extreme high strength polyurethane power adhesive for a wide range of applications.

- Most important characteristics**
- Mega power – up to 12 N/mm<sup>2</sup>
  - Water resistant (EN 204/205 D4)
  - Excellent adhesion without primer to most, even damp, surfaces
  - For heavy duty building materials, plastics and insulations materials such as XPS and EPS and glass wool

- Certifications**
- EN 204/205 D4
  - A+ French VOC Regulation

| Packaging        | Packed per            | Colour |
|------------------|-----------------------|--------|
| 300 ml cartridge | 12 cartridges per box | beige  |





**BOSTIK H350 SUPERGRIP MULTI PURPOSE**  
Durable flexible multi-purpose grab adhesive

**Product description**  
BOSTIK H350 SUPERGRIP MULTI PURPOSE is a universal solvent free hybrid grab adhesive for a wide range of applications.

- Most important characteristics**
- Universal grab adhesive
  - Solvent free
  - Good adhesion without primer to most, even damp, surfaces

| Packaging        | Packed per            | Colour |
|------------------|-----------------------|--------|
| 290 ml cartridge | 12 cartridges per box | white  |



**BOSTIK N305 SUPERGRIP FAST SET XTRA**  
Multi-purpose instant grab adhesive

**Product description**  
BOSTIK N305 SUPERGRIP FAST SET XTRA is a fast setting multi-purpose adhesive providing an instant tack and high bond strength.

- Most important characteristics**
- Universal grab adhesive
  - Exterior and interior use
  - Instant tack

| Packaging        | Packed per            | Colour |
|------------------|-----------------------|--------|
| 300 ml cartridge | 12 cartridges per box | beige  |

# 7. Adhesives in other segments



### More adhesives

Bostik also offers adhesives in other segments such as the general purpose segment, expanding foam segment, panel & insulation segment and garden & landscaping segment. These special adhesives are developed specifically for a dedicated application such as panelbonding, the installation of door and window frames etc. That is the reason these adhesives are in a different segment or concept segment.

### General purpose

Professionals sometimes want other products than the adhesives displayed in this grabs & adhesives brochure. Especially if they also need to seal the connection joint that arises after they bond the construction element. Normally you would need two different products for this job; an adhesive and a sealant. Bostik's General purpose segment consists out of high quality professional products that can do both! The professional doesn't have to switch products but can execute his job with only one product. For example the BOSTIK H750 SEAL'N'BOND PREMIUM. This product is very well suitable for bonding a large variety of construction materials and also has the ability to seal most connection joints that arises thereafter. For a full portfolio please consult the General purpose segment brochure.

### Decoration & paint

Built specifically for the interior decorator and paint professional. This segment holds some high quality adhesive products that suit the needs for the demanding modern professional. Please see the decoration & paint brochure for the full portfolio.

### Expanding foam

The expanding foam segment contain products that have the ability to bond building elements. PU-foam is often used for the installation of door and window frames. A PU-foam that is very well suited for this application is a 2-component foam. Bostik offers within its expanding foam segment a variety of professional 2-c polyurethane foams that have the ability to bond or fix building elements. For a full portfolio PU-foams that can bond or fix, please consult the expanding foam segment brochure.

### Panel & insulation

The panel en & insulation concept segment also has some adhesive products in its portfolio. These adhesives are specifically developed to bond panels in facade constructions but also some high quality professional PU-foams that are developed for bonding of insulation panels. For a the full portfolio, please consult the panel & insulation brochure.

### Garden & landscaping

The garden & landscaping segment holds some very special adhesives that have been developed especially for bonding stone and natural stone elements for the construction of garden elements. Please see the new garden & landscaping brochure for the full portfolio of this range.



# 8. Certifications



The new Bostik Grabs & Adhesive range complies to well-known industry standard certifications. Below we highlight and explain the certification in more detail.

## CE Classification (Europe)

In today's world globalization and harmonization have become common 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 provides transparency and simplicity in sealing and bonding.

## GEV-EMICODE EC1 Plus

EMICODE® is a protected product classification system and at the same time an Eco label. Installation materials, adhesives and construction materials are submitted to a strict certification procedure where the quantity of emitted volatile organic compounds (VOC) is examined. When products come with the EC1 Plus certification, they can be easily adapted in the BREAAAM and LEED schemes.

## M1 Certification

Various chemicals are emitted from building and interior decoration materials into indoor air. The classification presents emission requirements for the building materials, fixtures and furniture, with and without padding or textile coverings used in ordinary work spaces and residences with respect to good indoor air quality. M1 stands for low emissions.

## A+ Certification

A+ is a compulsory French VOC emissions labelling of construction products installed indoors, based on emission testing. This regulation foresees that any covered product placed on the market has to be labelled with emission classes based on their emissions after 28 days, as tested with ISO 16000 and calculated for European reference room. The same holds true for EMICODE, GUT and Blue Angel. Also other valid information can be used as a basis for this assignment of class, such as tests based on ISO 16000, but with shorter testing duration.

| Portfolio                    | Adhesive Technology | Emicode EC1+ | M1  | A+  | CE EN-15651-1 | CE EN-15651-2 | CE EN-15651-3 | CE EN-15651-4 |
|------------------------------|---------------------|--------------|-----|-----|---------------|---------------|---------------|---------------|
| H350 SUPERGRIP MULTI PURPOSE | Hybrid              | -            | -   | yes | -             | -             | -             | -             |
| N305 SUPERGRIP FAST SET      | Neoprene            | -            | -   | -   | -             | -             | -             | -             |
| H515 SUPERGRIP ALL-IN-ONE    | Hybrid              | yes          | -   | yes | -             | -             | -             | -             |
| P580 SUPERGRIP XTRA POWER    | Polyurethane        | -            | -   | yes | -             | -             | -             | -             |
| H780 SUPERGRIP INVISIBLE     | Hybrid              | -            | -   | yes | yes           | -             | -             | -             |
| H785 HIGH TACK               | Hybrid              | yes          | yes | yes | -             | -             | -             | -             |
| H910 SUPERGRIP FAST CURE     | Hybrid              | -            | -   | yes | -             | -             | -             | -             |
| H920 SUPERGRIP CLEAR         | Hybrid              | -            | -   | yes | yes           | -             | -             | yes           |
| H930 SUPERGRIP METALL        | Hybrid              | -            | -   | yes | yes           | -             | -             | yes           |
| H960 SUPERGRIP MIRROR        | Hybrid              | yes          | yes | yes | -             | -             | -             | -             |
| H980 HIGH TACK PREMIUM       | Hybrid              | yes          | yes | yes | -             | -             | -             | -             |

# 9. Explanation of the icons

The brand new packaging of the Grabs & Adhesives range comes with icons that tell something about the properties of the product. Below we explain in detail what these icons mean.



### Outside & inside use

The product can be used outside and inside.



### Inside use

The product can only be applied indoors.



### No support needed

The product can be used without the need for supporting the bond.



### Powerful

The product is very strong and has powerful properties.



### Low VOC

The product is free of solvents that could harm you and the environment.



### No screws needed

The product makes the use of screws redundant.



### No drilling required

The product makes the necessity of drilling redundant.



### Fast curing

The product has a very fast curing of 15 minutes.



### Suitable for metal

The product is suitable for bonding metal elements.



### Suitable for wood

The product is suitable for bonding wooden elements.



### Mirrors

The product can be used for bonding mirrors.



### Strong adhesion

The product has a very strong adhesion.



### Metal surfaces

The product is suitable for use on metal substrates.



### Crystal clear

The product is highly transparent.



### Easy application

The product has some excellent application properties.

# 10. Technical Training

# Bostik professional product portfolio

The rest of the Bostik professional product portfolio you can find at [bostik.com](http://bostik.com) and read more about them in the product application brochures

End-users expect up-to-date knowledge and technical support from shop-employees. Bostik supports with training programs focusing on products and applications. We co-develop training programs with producers and resellers to combine the knowledge of adhesives with knowledge on dedicated Bostik products.



### Better results through Knowledge

Grabs & adhesives are a serious market segment which deserves a dedicated approach. Bostik constantly gathers knowledge about adhesives upstream and downstream, from chemical supplier to end-user. The collection of this knowledge is a continuous process and provides us with the latest insights.

### Centre of Excellence

In our recently built Centre of Excellence we share knowledge within the Bostik group, with our customers and with end-users. We are pleased to receive our partners and end-users to provide them with the latest knowledge and new insights. This new information enables our partners to achieve higher efficiency and better results.





**Smart help**  
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