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EDUCATION

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RESULTS
THROUGH
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OUR MISSION



SUPPORTED BY

Mirror bonding

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. Our archives are laden with examples of Bostik technologies that have disrupted markets - from potato starch-based wallpaper paste to elastic attachment adhesive for diapers.

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 8 regional centres. And we differentiate our business through this investment.



Mirror bonding

GENERAL INFORMATION

As, for esthetical reasons, mirrors are mostly applied to walls and doors without any mechanical support, special adhesives are used to fasten these mirrors "invisible" onto the supporting surfaces. Mirrors are sensitive products, because of which not every mirror can be glued with every glue onto every surface. It is evident that care has to be taken. The information given below will be helpful to achieve a good result.

THE MIRROR

The mirror is made of glass. On the back of the mirror a silver-layer and mostly a copper- or led layer are applied which are covered/protected with special coating layers. The silver- and copper or led layers are sensitive for contact with water, moisture or chemical fumes or liquids.

In case of contact, these metal layers can be attacked which will show through dark or hazy spots in the mirror. To avoid this attack the metal layers are to a certain extent protected by special coatings, although a 100% protection can't be achieved as this will depend on the circumstances of a particular application as well (See the instructions of the mirror manufacturer as well). In this Technical Bulletin it is assumed that the quality of the mirror does apply to the **Standard DIN EN 1036-2** (For other mirrors like safety and plastic based and heated mirrors do contact the mirror- and adhesive manufacturer).

THE ADHESIVE

As adhesives for mirrors, only non-aggressive products towards the coating or metal layers, can be used. Nowadays products, combining a good bond strength with a certain flexibility which will allow a difference in movement between the mirror and the substrate, are used. In the Bostik Professional Portfolio this is the **Bostik H960 SUPERGRIP MIRROR**



SURFACES

The surfaces the mirror has to be applied on, do have to meet certain requirements like: Sufficiently even, so the mirror can be applied without tension. (Smaller irregularities can be picked up by the adhesive). Sufficiently strong (stronger than the force that will be supplied to the substrate by the weight of the mirror) Free of dust, grease and dirt. Sufficiently dry. (For example a layer of stucco on a wall has to be dry enough to make sure that no accumulation of water can take place behind the mirror).

Although the adhesives do have very good and universal adhesion properties there can be surfaces where no adhesion can be achieved. Specially on unknown surfaces, plastics and coatings an adhesion test is advisable.

APPLICATION OF THE MIRROR ADHESIVE

Bostik H960 SUPERGRIP MIRROR

The adhesive with V-nozzle to be applied in vertical beads, **NOT IN DOTS**. Distance in between the vertical beads; approx. 10 cm. press the mirror to the wall until a distance in between remains of 2-3mm. Repositioning of the mirror is still possible. By remaining a space of 2-3 mm, allowing some ventilation behind the mirror. This is even more necessary in wet areas to avoid condensation or water accumulation at the back of the mirror, which could result in damaging the reflective silver-layer. The adhesive bead of 2-3 mm can absorb possible movement between the mirror and the wall. Depending on the weight of the mirror it may be necessary to support the mirror during several hours. During the curing of the adhesive (curing speed approx. 2 mm per 24 hours) strength of the bond is build up Maximum strength is achieved after complete cure, which might take 5 -7 days. If joints between mirrors or mirror and wall have to be sealed to prevent water penetration behind the mirror it is advisable to do this sealing after the adhesive is fully cured. (approx. 1 till 2 weeks) (If sealing is done to early the adhesive can be shut from the necessary moisture supply resulting in curing defects). By sealing the joints around the mirror, water penetration through these joints is avoided, however ventilation is

stopped as well which implicates that one has to be sure that no water accumulation, behind the mirror, through for instance the substrate can take place.

MORE INFORMATION

If you need more information, please contact your local Bostik Sales Representative.

LIABILITY

All supplied information is the result of our tests and experience and is of general nature. However they do not imply any liability. It is the responsibility of the user to verify by his own tests if the product is suitable for the application.