

## OB1 MUTLI-SURFACE CONSTRUCTION SEALANT & ADHESIVE

### Product Description

OB1 Multi-Surface Construction Sealant & Adhesive is a high quality professional universal sealant and adhesive based on hybrid technology, which cures under influence of humidity to form a durable elastic rubber.

### Benefits

- Universal bonding and sealing for interior and exterior use
- Permanently elastic
- Free of isocyanates, solvents and silicones
- No shrinkage and bubble free with anti-pick properties
- Resistant to UV, moisture, mould and weather
- Adheres perfectly without primer on most, even damp, surfaces even underwater
- Neutral curing, almost odourless
- Non corrosive towards metals
- High mechanical resistance, end strength and E-modulus
- Absorbs acoustic and mechanical vibrations

### Technical Specifications

|                |                    |                              |
|----------------|--------------------|------------------------------|
| Shrinkage      | Nil                | Nil                          |
| Flow           | 5 Bar / 3mm / 23°C | 140 g/min                    |
| Skin cure      | 23°C 50% R.H.      | 8 minutes                    |
| Non-adhering   | 23°C 50% R.        | 25 minutes                   |
| Full cure time | 23°C 50% R.H.      | 24hrs - 6mm / 48hrs - 7/12mm |

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| E-Modulus 100%                    | 1,72 N/mm <sup>2</sup>            |
| Volume shrinkage after cure       | <3%                               |
| Hardness - DIN 53505              | 60 Shore A                        |
| Tensile strength                  | 2,20 N/mm <sup>2</sup> / 2,65 MPa |
| Thermal stability                 | -40°C till +120°C                 |
| Elongation at rupture - DIN 53504 | Peak 155°C max. 30 min            |
| Non toxic                         | >350%                             |
|                                   | EC1 & EC1 A+ Certified            |

All above tests according to EN 15651-1: F-EXT-INT-CC 25HM, EN 15651-3: S XS3, EN 15651-4: PW-EXT-INT-CC 25HM  
ISEGA Food Approval.

### Chemical Resistance

|          |  |
|----------|--|
| Good     | Water, seawater, aliphatic solvents, oils, greases, diluted organic acids. Practically no dirt attachment. |
| Moderate | Esters, Ketones, Aromatics, chlorine for swimming pools chlorinated solvents.                              |
| Bad      | Concentrated Acids   |

**BONDS AND  
SEALS ALMOST  
EVERYTHING:**



**ALL METALS**  
EVEN LEAD



**PLASTICS**  
INCLUDING  
PVC & GRP

**AND MORE**  
GLASS • MIRROR  
POLYSTYRENE  
FIBREGLASS  
WOOD



**WORKS IN WATER**



**VERY  
LOW VOCs**

**WHITE**

**BLACK**

**GREY**

**ANTHRACITE**

**BROWN**

**OAK**

**TERRACOTTA**

**SANDSTONE**



## APPLICATIONS

### Bonds Aluminium & Wood

Depending on its moisture, softwoods and hardwoods expand and contract constantly, and some more than others. Aluminium expands and contracts in accordance to temperature. OB1 will maintain its robust bond when cured from -40°C to +120°C and therefore is able to cope in harsh external weathering conditions and in a refrigerated environment. Its bond has the ability to elongate up to 350%.

### Food Preparation Areas

OB1 conforms to ISEGA Standards so it is the perfect solution for use in kitchens and food preparation areas. OB1 bonds & seals marble, granite and quartz worktops in kitchens plus it's guaranteed not to attack or stain surfaces.

### Marine & Pool Sealant

The original formula makes OB1 the ideal sealant for under water applications even resistant to saltwater. Its hybrid polymer formulation can be applied under water and retains its initial bond. It also acts as a structural underwater bond in closed-face applications in swimming pools such as floor and wall tiles without the need to drain the pool.

### Carbon, Fibre, Fibreglass & GRP

For instant repair or bonding with carbon fibre materials, fibreglass and GRP, this all-in-one sealant, adhesive and filler is all you'll ever need. OB1 withstands vibration.

### Plastic, Metal & Steel

The original solvent free hybrid polymer formula used in OB1 allows flexible adhesion that can move with the expansion and contraction of metal and steel without etching or burning the surfaces. For polypropylene and polyethylene contact manufactures technical services.

### Environmentally Sound

OB1 contains no solvents or isocyanates resulting in an A+ rating for air quality. It is odourless and kind to the environment as well as being safe for use in residential, domestic and industrial applications.

### Solar Panels

Typically solar panels are installed with mechanical fixings drilled into the roof substrate. They are sealed with silicone mastics which contain a solvent base. The solvent will eventually evaporate causing the mastic to collapse hence the seal/bond line failing. OB1 does not contain any solvents so it will never crack, shrink or collapse, creating a permanent seal/bond. In addition it has a high resistance to weathering.

### Mirror Adhesive

OB1 original formulation has no solvents or isocyanates so it will not degrade the back of mirrors. It also has an exceptionally strong initial grab. Depending on size and weight of mirror in most cases OB1 does not require additional fixings while curing.

### Superior for Bathrooms

OB1 features Zero VOC's (volatile organic compounds) so it cures absolutely solid with no holes, unlike other sealants where bacteria can breed resulting in mould. OB1 never shrinks or cracks.

### Bonds & Seals Lead Flashings

Perfect for roofing applications, OB1 seals, grips and fills lead flashings to stone, brick and felt – even in the wet!

### Fix leaking gutters

Gutters leak when the EPDM Seal degrades from exposure to the elements. Silicone sealants are often used to repair the seal, but the surface has to be dry first. Solvents within the sealant will evaporate causing it to shrink and collapse on the seal/bond line resulting in failure. OB1 performs flawlessly even when applied under water, doesn't contain solvents, so therefore will never shrink or crack. It's the perfect repair for leaking gutters.

### Gardening Repair

OB1 the multi-surface garden repair product fixes your terracotta, ceramic, cracked concrete, slate and even broken pots and planters whether dry or wet. Repair garden pond ornaments even under water. OB1 the total garden ornament repair product.

### Anti-Pick Qualities

OB1 has excellent anti-pick qualities making this product suitable for use in correctional institutions and areas where vandalism of sealant may occur.

## Shelf Life

Store between +5°C and +25°C in shaded conditions. Shelf life is 36 months. Measured to ISO 9040, DIN 53504, DIN 53505

## Recommended Areas of Use

OB1 Multi-Surface Construction Sealant & Adhesive can seal and bond many materials such as: stone, concrete, glass, plasterboard, PU, PVC, hard plastics, enamel, ceramic, copper, lead, zinc, aluminium, metals, alloys, stainless steel, HPL and cement fibre panels, wood and paint systems.

## Directions of Use

Apply adhesive in a ventilated area in vertical stripes with 10-20 cm between stripes. Do not apply adhesive in dots! The use of 3 mm double sided tape is recommended to support the adhesion during the first 24 hours and to make sure that the thickness of the adhesive is correct.

## Surface Preparations and Finishing

Application temperature +5°C to +40°C (applies to environment and substrates). All substrates must be solid, clean and free of grease and dust. OB1 Multi-Surface Construction Sealant & Adhesive adheres perfectly without the use of a primer to most non porous substrates. Always test adhesion prior to application. Use OB1 Smoothing Tool to smooth the joint.

## Paintability

OB1 Multi-Surface Construction Sealant & Adhesive is paintable with water based and most 2 component paints. Synthetic paints can dry slower. We recommend testing compatibility with paint prior to application. If OB1 Multi-Surface Construction Sealant & Adhesive is being painted over (not necessary), we recommend slightly sanding the sealant and the junction surfaces prior to use. For the best results, we recommend painting a few days after application.

## Cleaning

Uncured material and tools can be cleaned by using OB1 Multi-Surface Cleaner. Hands can be cleaned with OB1 Heavy Duty Cleaning Wipes. Cured material can only be mechanically removed.

## Certifications

|  |  |
|--|--|
|     | EN 15651-1: F-EXT-INT-CC 25HM<br>EN 15651-3: S XS3<br>EN 15651-4: PW-EXT-INT-CC 25HM |
|     | EMICODE EC1 PLUS   |
|     | ISEGA  |
|    | U.S. GREEN BUILDING COUNCIL  |
|  | VOC A+ EMISSIONS   |

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