

# HYG|ie|CLAD

## HB-40

### Powerful Hybrid Adhesive

#### Product Description

Hyg-ie-Clad HB-40 is a one part, solvent free hybrid sealant and adhesive. It has been designed for bonding and sealing most common substrates. Hyg-ie-Clad HB-40 finds many uses in the building industry, vehicle building and repair, marine, caravan and motor home building and repair, etc.

#### Benefits

- Very high initial grab, with no slip and good gap filling properties.
- High green and final bonding strength
- Interior and exterior use, and can even be applied to wet surfaces
- Totally Waterproof & Weatherproof
- Quick Curing.
- Overpaintable (test with required paint prior to use)
- Powerful fungicide prevents mould growth
- Safe in use - Free from solvents, acids, and isocyanates.
- Good temperature resistance from -40°C to +150°C
- Excellent primerless adhesion to most surfaces, including metals, most plastics, glass, concrete, plaster, plasterboard, polyester, Perspex, glass, wood, enamel, painted surfaces etc.

#### Areas For Use

- As a quality nail replacement adhesive in construction, even to cold damp surfaces.
- Pointing around doors and windows, particularly commercial vehicles, caravans and boats.
- Bonding mirrors to most common substrates.
- Automotive gap filling and sealing.
- Sealing low movement vertical expansion joints.
- Bonding and jointing of PVC and GRP cladding panels. Use PP Primer for use with Polypropylene.
- Bonding difficult materials such as specialised polymer systems, metals and fibreglass
- Any application requiring high performance, durable sealing and bonding.

#### Limitations

- Do not seal mirror edges/plastic sheeting until adhesive has cured.
- In areas of high UV; some darkening/discolouration may occur. This does not affect the performance of the sealant
- Do not use on surfaces that bleed oils or plasticizers
- Not for use as part of a structural glazing system.
- Not for use in aquarium manufacture.
- Not for use in conjunction with bitumen, or asphalt.

#### Application

All surfaces must be clean and dust free. Surfaces may be damp, but have no standing water.

When using Hyg-ie-Clad HB-40 as an adhesive, surfaces must be sound, clean, dry and free from dust, grease, loose material etc. Prime dusty surfaces with a PVA Bonding Agent (Not joinery grades) diluted 1:4 with water and allow to dry. For bonding heavy items such as plasterboard, worktops, etc. apply adhesive all the way around the edge of the item.

(50mm from edge) and cover back with beads of adhesive at 300mm intervals. Alternatively, apply adhesive direct to battens and press into place. NOTE. With heavy items, always provide temporary support until the adhesive cures.

For bonding lightweight items such as covings, dado rails, skirting etc. apply adhesive to back of item in one or two continuous beads and press immediately into place. Clean up excess adhesive immediately with a cloth/white spirit.

When bonding mirrors, apply 6mm diameter beads of sealant direct to back of mirror in vertical strips, spaced at 30-40mm centres. Immediately place mirror in position and secure with good, even pressure with a slight twist action. Provide temporary support until adhesive has dried (24-48 hours). If required, HB-40 may also be used to seal around mirror 24 hours after fixing (to allow for cure)

When using HB-40 as a sealant, apply directly to the joint and tool immediately to ensure a smooth finish. Test any paints to be used over HB-40 thoroughly prior to putting HB-40 into any manufacturing process.

Uncured material can be removed by wiping with a dampened cloth with white spirit. Cured material can be carefully removed by mechanical means. Full cure must be allowed before over painting.

## Specific Data

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| <b>Consistency</b>                            | Pasty  |
| <b>Density</b>                                | 1.50 ± 0.05  |
| <b>Application Temperature</b>                | 5 to 35°C  |
| <b>Skin Formation at 23°C and 50% RH</b>      | 30 ± 10 min  |
| <b>Sagging (ISO 7390)</b>                     | Nil  |
| <b>Curing at 23°C and 50% RH</b>              | > 3mm / 24hr   |
| <b>Shore A Hardness (ISO 868 – 3 seconds)</b> | 55 – 60  |
| <b>Modulus at 100% Elongation (ISO 8339)</b>  | > 0.60MPa  |
| <b>Elongation @ Break (ISO 8339)</b>          | > 60%  |
| <b>Tensile Strength (ISO 8339)</b>            | > 1.5 Mpa  |
| <b>Shrinkage (ISO 10563)</b>                  | < 2%   |
| <b>Resistance To UV Radiation</b>             | Excellent  |
| <b>Compatibility With Paints</b>              | Water based: yes (test compatibility)<br>Solvent based: no (with alkyd paints) |
| <b>Temperature Resistance</b>                 | -40 to +150°C  |
| <b>Usage rate</b>                             | Approximately 10 linear meters per 300ml cartridge @ 6mm bead                  |

## Storage

Store in cool dry conditions between + 5°C and 25°C.

## Shelf Life

Cartridge - 12 months in original unopened containers.

**Important Notice** - Data contained in this document is for information only and is believed to be reliable. Print Solutions cannot assume responsibility for results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability of the product for any specific purpose.

Before using this product ensure that you have been supplied with and have read carefully the following information.

- The hazard label (complying with latest CDG/CPL regulations) applied to the container.
- Material Safety Data Sheet, Hyg-ie-Clad HB-40 Clear.

**PrintSolutions**

www.printsolutions.ie  
+353 1 409 8000  
sales@printsolutions.ie