

# HS45

## DESCRIPTION

HS45 is a neutral cure, high modulus, solvent free, one part, moisture cure, adhesive based on Hodgson Hybrid Polymer Technology. Very high strength, initial green strength, tack/grab and adhesion.

## KEY FEATURES

- High initial tack / grab.
- Does not contain any Phthalates or other harmful plasticisers.
- Excellent primerless adhesion to most substrates.
- High strength / fast cure.
- Cures tack free.
- Highly resistant to substances such as mineral oils and mild solvents, acids and alkalis.
- Good tooling properties.
- High green strength adhesive.
- Solvent & Isocyanate free.
- Weatherable and UV stable.
- Low odour.
- Permanantly flexible.
- Non corrosive.
- Excellent storage stability.

## USES

- Suitable for many substrates including; unprimed metals, aluminium, steel, composite panels, wood, glass, plastics, concrete, mortar, plaster, epoxy and polyester coated panels, polycarbonate, PU, stainless steel, anodised aluminium, copper, zinc, lead, finished wood and polystyrene.
- For factory, on-site or remedial applications.
- Bonding of decorative frames, skirting boards, insulation panels, cable ducts.
- All purpose adhesive, for internal and external use.
- Paintable connection joints.

## LIMITATIONS

- Do not use for aquaria construction.
- Do not use with plastics such as; PP, PE, PTFE or other low surface energy materials. HS10 primer can be considered to improve adhesion to non-porous substrates.
- Not for use with bitumen, marble or natural stone.
- Not suitable for glazing applications.

## PERFORMANCE

**Adhesion:** Excellent.

**Base technology:** Hodgson Hybrid Polymer.

**Chemical Resistance:** Good.

**Curing system:** Moisture Cure

**Hardness:** Shore A = 80

**Skin formation:** 10 - 30min @ 23°C / 50% RH.

**Elongation at break:** 160%

**Paintability:** Paintable with most paints, alkyd based paints may slow curing (testing is recommended).

**Density:** 1.65g/ml

**Extrusion rate:** 10-15g/s

**Curing rate:** 2-3mm / 24hours

**Tensile strength:** 2.0 N/mm<sup>2</sup>

**Service temperature range:** - 40°C to +80°C

**Slump:** Non-sag

**UV resistance:** Excellent

# HS45

## APPLICATION

### PROPERTIES

**Application temperature range:** + 5°C to + 40°C

**Shelf life:** 18 months

**Skimming time:** 10-30 minutes

**Working time:** 10-30 minutes

### INSTRUCTIONS

**Joint design:** Please consult the Technical Information Sheet entitled 'Joint design for cartridge based products' prior to application.

**Surface preparation:** All surfaces must be clean, dry and free from frost, grease and loose materials. Apply primer if required. Most substrates only require priming if testing indicates it is needed. Apply using a skeleton gun into the joint ensuring good contact with surfaces. In situations where an especially neat finish is required, use masking tape to cover the face edges of the joint and remove immediately once tooling has been completed.

**Tooling:** Tool immediately after application, within the working time for the product.

## EQUIPMENT

A selection of hand & air operated guns are available for cartridge and/or sausage application including a high power type especially suitable for filling deep voids.

## PACKAGING

**290ml cartridges** - 25 per box

**Colour range:** White

**600ml foil sausages** - 12 per box

**Colours:** White

## HEALTH AND SAFETY

- Non-flammable.
- Wash hands immediately after use.
- See Product Safety Data Sheet for further information.

## GENERAL

HS45 is part of a full range of speciality sealants designed for the professional user. For further information please contact our Customer Care Team or visit our Website.

The information given in this product data sheet is based on laboratory tests and experience which we believe to be correct. In view of the wide range and variability of substrates, we would advise that our product should be tested by the user to establish suitability for its intended application. E &OE