PRODUCT DATA SHEET

HS20

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DESCRIPTION

HS20 is a high modulus, single component, moisture-curing, adhesive and sealant based on Hodgson Hybrid Polymer Technology. It offers outstanding performance across a wide variety of industrial applications. It has excellent adhesion to glass, timber, metals, brickwork, most plastics and concrete and does not normally require a primer.

KEY FEATURES

Premium quality high modulus adhesive and sealant.	Excellent adhesion to PVC-U, coated metals, brickwork, polycarbonate, coated timber and glass.
Neutral system, free from isocyanates and silicones.	Adhesive sealing and jointing to most substrates.
Non staining, odour free and bubble free curing.	Permanent elastic sealing with high adhesive strength to a wide variety of substrates including wood, concrete, tiles, steel, aluminium, zinc, copper, brass, stainless steel, glass, polyester.
Good movement accommodation.	Highly resistant to ageing and weathering.
Resistant to water, salt water, grease oils, fuels, defrosting liquids, detergents, aliphatic fats, mildew, weak acids and alkali.	Paintable. (Testing is recommended).

USES

HS20 is a paintable sealant that has been specifically formulated to seal typical joints where a strong bond and high movement is required.	Due to the solvent-free nature of HS 20 it can be used by companies that will not allow highly solvented or harmful sealants onto site, but still require all the advantages of a polyurethane sealant / adhesive.

PERFORMANCE

Adhesion: Excellent unprimed adhesion to glass or glazed surfaces, coated metals, brick, PVC-U, polycarbonate, timber

Base technology: Hodgson Hybrid Polymer

Chemical resistance: Excellent to dilute acids and alkalis

Curing system: Neutral cure

Mould resistance: Good

Movement accommodation: ± 20%

Service life (predicted): 20+ years

Service temperature range: -30°C to +80°C

Shore A hardness: 60 ±5

Slump: None

Specific gravity: 1.59 g/cm³

Staining: Nil

Elongation at break: >350%

Tensile (100% elongation): 2.70 MPa

UV resistance: Excellent

APPLICATION

PROPERTIES

Application temperature range: +5°C to +30°C

Curing rate: Cures at a rate of 2 - 3mm in 24 hours at 23°C @ 50% RH. Lower temperatures and drier conditions will result in a slower rate of cure.

Shelf life: 18 months in original unopened packaging in cool, dry condition with temperatures of +5°C to +25°C.

Skinning time: Skin forms after approximately 25 minutes.

Tack free time: Approximately 40 minutes (23°C & 65% RH).

Working time: Approximately <25 minutes depending on conditions.

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. Install bond breaker to prevent bond at base of joint where necessary. Most substrates only require priming if testing indicates a need or where sealant will be subjected to water immersion after cure. Cut the top of the screw thread off the cartridge and screw on the nozzle. Cut nozzle to correct diameter for joint size. Apply using a skeleton or powered gun into the joint ensuring good contact with surfaces.In deep joints, the use of Hodgson Backing Rod is essential to ensure good joint formation. 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 sealant has been applied within the working time for the product.

EQUIPMENT

A selection of hand & air operated guns is available for sausage application including a high power type especially suitable for filling deep voids.

PACKAGING

Available in; 600ml sausages- 12 per case & 290ml cartridges – 25 per case.	Colour range: White, Grey & Black.

ESTIMATING QUANTITIES

Number of cartridges / sausages required = $\frac{\text{Joint depth (mm) x Joint width (mm) x Length (M)}}{\text{Volume of sachet (ml)}}$

This calculation does not allow for wastage.

HEALTH AND SAFETY

Non-flammable. There are no known health hazards associated with HS20 when used as recommended.	Wash hands immediately after use. See Product Safety Data Sheet for further information.

LIMITATIONS

Not suitable for glazing applications.	Do not use in joints deeper than 15mm.
Not for use with bitumen, marble or natural stone.	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.

GENERAL

HS20 is part of a full range of speciality sealants and tapes designed for the professional user. For further information please contact our Customer Care Team or visit our Website.