

HY-SPEC – Ag

Version No. 1

Revision Date: 10/10/2019

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DESCRIPTION

HY-SPEC Ag is a high modulus, single component, moisture-curing, adhesive and sealant based on Hy-Spec Hybrid Polymer Technology. The product is specifically formulated to be robust and resilient once cured to offer enhanced anti-pick properties over traditional sealants. In addition HY-SPEC Ag is protected by Biocote Antimicrobial technology to create a surface upon which bacteria/microbes cannot survive making it easier to maintain a hygienic surface. This is superior to traditional fungicidal materials used in sealants which degrade over time and are not as effective against bacteria and viruses.

KEY FEATURES

Anti-Pick formulation – more resistant to being picked in communal areas relative to traditional sealants.	Premium quality high modulus adhesive and sealant with integral antimicrobial protection.
Neutral cure system, free from isocyanates and silicones, product is therefore paintable. (Prior testing is recommended).	Highly resistant to ageing, life cycle testing shows Biocote is proven to offer antibacterial protection for the expected lifetime of the product.
Non staining, solvent free, odour free and bubble free curing.	Excellent adhesion to PVC-U, coated metals, brickwork, polycarbonate, coated timber and glass.
Resistant to water, salt water, grease oils, fuels, defrosting liquids, detergents, aliphatic fats, mildew, weak acids and alkali.	Biocote protected HY-SPEC Ag has been proven to reduce bacteria/microbes by up to 99.99%, based on MOD ISO22196: 2011.
Robust material once cured.	Suitable for Internal use only.

USES

Ideal for the sealing of joints in secure supervised environments or in out of reach applications.	HY-SPEC Ag is an antimicrobial sealant that has been specifically formulated to seal typical joints where a strong bond and movement accommodation is required.
Ideal for use where long term visual appearance of the sealant is to be maintained. Biocote is proven effective against microbes that may negatively impact aesthetic finishes.	Municipal and Public areas
Adhesive sealing and jointing to most substrates especially where superior antimicrobial performance is required.	Suitable for use in animal shelters, detention centres prisons or hospitals.

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.

Superior to traditional biocidal additives used in sealants which degrade over time and are not as effective against many microbes (bacteria, viruses and mould) including; MRSA, E. coli, Campylobacter, Staphylococcus aureus, Salmonella, Listeria, Legionella, Pseudomonas, Shigilla, H1N1 virus and Aspergillus Niger.

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PERFORMANCE

Adhesion: Excellent unprimed adhesion to materials including; glass or glazed surfaces, coated metals, brick, PVC-U and timber.

Base technology: Hy-Spec Hybrid Polymer.

Chemical resistance: Excellent to dilute acids and alkalis.

Curing system: Neutral cure.

Mould resistance: Good.

Movement accommodation: ± 12.5%.

Service life (predicted): 20+ years.

Service temperature range: -30°C to +100°C once cured.

Shore A hardness: 60 ±5.

Slump: None.

Specific gravity: 1.60 g/cm³.

Staining: Nil.

Elongation at break: >250%.

Tensile (100% elongation): 2.0 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 to. 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 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 310 ml cartridges – 12 per case.

Colour range: White.

ESTIMATING QUANTITIES

Number of cartridges / sausages required =
$$\frac{\text{Joint depth (mm)} \times \text{Joint width (mm)} \times \text{Length (M)}}{\text{Volume of sachet (ml)}}$$
 This calculation does not allow for wastage.

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HEALTH AND SAFETY

Non-flammable.

There are no known health hazards associated with Ag.

Wash hands immediately after use.

See Product Safety Data Sheet for further information.

LIMITATIONS

Not suitable for glazing applications.

Do not use in contact with surfaces bleeding oil, plasticisers and solvents.

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

Ag 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.

The information given in this product data sheet is based on laboratory tests and experience which we believe to be correct. Properties quoted are typical and do not therefore constitute a specification. 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.