POLYSTO
strong in hygienic construction

Technical data sheet
Revision: 05/05/2020

HYGISEAL 3.1

Technical data

Basis	Hybrid Polymer
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (23°C/50% R.H.)	Ca. 15 min
Curing speed * (23°C/50% R.H.)	1,8 -2, 3 mm/24h avoid any joint movement within 72 hours
Hardness**	Ca. 90 ± 5 Shore A
Density	1,72 g/ml (1,79 oz/fl oz)
Viscosity	Ca. 100 cP
Elastic recovery (ISO 7389)**	> 75 %
Maximum allowed distortion	± 20 %
Shear strength**	2,75 N/mm² (Measured on AlMgSi, 2mm thickness, 25x25, 10mm/min)
Temperature resistance**	-40 °C → 90 °C (-40°F → 194 °F)
Application temperature	5 °C → 35 °C (41°F → 95 °F)

PU FREE

* These values may vary depending on environmental factors such as temperature, moisture, and type of substrates.
** This information relates to fully cured product.

Product description

HygiSeal 3.1 is a high quality, neutral, elastic, 1-component, low viscosity, construction joint and adhesive sealant based on MS-Polymer.

Properties

- Fast curing
- Good applicability and toolability
- Fungis resistant connection
- Resistant to high-pressure cleaning
- Permanently elastic after curing
- Good weather and UV resistance
- Good adhesion on all surfaces (except PE, PP and PTFE).
- Excellent resistance to many chemicals
- Free of solvents and isocyanate
- Easy to tool, extrude (even at low temperatures) and finish in all weather conditions.
- Can be painted with all water based paints and many other systems (to be tested)
- In compliance with FDA CFR 21 177.2600 (extracts in distilled water)

Applications

- Elastic bondig between surfaces (chemical welding in structural bonding applications where a tough and rigid bond is required.
- Food industry, consumer goods, logistics & distribution, Cleanroom & healthcare, etc...

Colour:

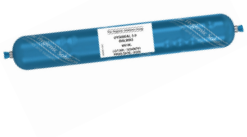
RAL 9016 Traffic White

RAL 7004 Signal Grey

RAL 9002 Grey White

Packaging

Packaging: 600cc (20 oz) foil bag
12 cartridges per box
792 cartridges per pallet



Shelf life

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C (41 °F) and +25°C (77 °F).
Storage at higher temperatures will shorten the shelf life.
Storage and transport during frost is possible.

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Substrates

Substrates: ... ABS, metals, aluminium, plastics, suitable for different porous and non - porous substrates like CleanRock®, FRP, sandwich panels, wood, MDF, chipboard, concrete, stone, metal, plastics, PU foam, polystyrene foam, mineral wool and other conventional materials in construction.
Not suitable for PE, PP, PTFE (eg Teflon®), bituminous substrates, copper or coppercontaining materials such as bronze and brass. We recommend a preliminary adhesion test on any substrate.
Nature: rigid, clean, dry, free of dust and grease.

Application method

Application method: With manual- or pneumatic 600cc (20 oz) caulking gun.

Cleaning: Clean with PolySto Cleaner or HygiSwipes immediately after use
Finishing: With a soapy solution.
Repair: With the same material.

Health- and safety recommendations

Take the usual labour hygiene into account. Use only in well-ventilated areas. Consult the packaging label for more information.

Remarks

- HygiSeal 3.1 may be overpainted with water based paints, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.
- When painted with oxidative drying paints disturbances in the drying of the paint may occur (we recommend to do a compatibility test before application).
- Remove all traces of soap (tooling) because it will harm the adhesion of the paint onto the sealant.

Standards and certificates

- In compliance with FDA CFR 21 177.2600 (extracts in distilled water)

Liability

The content of this technical data sheet is the result of tests, monitoring and experience. It is general in nature and does not constitute any liability. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application.

Warranty

The PolySto warranty on HygiSeal 3.1 runs until the stated expiring date on the cartridge or 1 year (12 months) after the stated production date.