



# APOLO Stick FX HT Professional

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## Technical data

Basis	MS Polymer
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (20°C / 65% R.H.)	Ca. 10 min
Curing speed * (20°C / 65% R.H.)	2 mm/24h → 3 mm/24h
Hardness	50 ± 5 Shore A
Density	1,62 g/ml
Elastic recovery (ISO 7389)	> 75 %
Maximum allowed distortion	± 20 %
Temperature resistance	-40 °C → 90 °C
Max. tension (DIN 53504)	1,90 N/mm <sup>2</sup>
Elasticity modulus 100% (DIN 53504)	0,75 N/mm <sup>2</sup>
Elongation at break (DIN 53504)	600 %
Application temperature	5 °C → 35 °C

(\*) these values may vary depending on environmental factors such as temperature, moisture, and type of substrates.

## Product description

Apolo Stick FX HT Professional is a high quality, neutral, elastic, 1-component adhesive sealant based on MS-Polymer with a very high initial tack.

## Properties

- High initial tack reducing the need for initial support.
- Fast curing
- Good extrudability
- high shear strength after full cure (no primer)
- Stays elastic after curing and very sustainable
- No odour.
- Can be painted with water based systems
- Good colour stability, weather and UV resistance
- Does not contain isocyanates and no silicones
- Good adhesion on slightly moist substrates

## Applications

- Sealing and bonding in the building and construction industry.
- Structural bondings in vibrating constructions.

- Elastic bonding of panels, profiles and other pieces on the most common substrates (wood, MDF, chipboard, etc).
- Bonding of small objects like ornaments, profiles.
- Elastic structural bonding in car and container industry.
- Bonding of insulation panels.
- Bonding of PVC cable trays.
- Flexible bonding in ship building , car body work and container industry.

## Packaging

*Colour:* white, black

*Packaging:* 290 ml cartridge, 600 ml sausage

## Shelf life

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C.

## Chemical resistance

Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis. Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons.

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## Substrates

*Substrates:* all usual building substrates, treated wood, PVC, plastics

*Nature:* clean, dry, free of dust and grease.

*Surface preparation:* Porous surfaces in water loaded applications should be primed with Primer 150. All smooth surfaces can be treated with Surface Activator.

Apolo Stick FX HT Professional has excellent adhesion on most substrates. We recommend a preliminary adhesion test on every surface. Apolo Stick FX HT Professional is has been tested on following metal surfaces: stainless steel, AlMgSi1, brass, electro-galvanized steel, AlCuMg1, hot dip galvanized steel, AlMg3, steel ST1403. Apolo Stick FX HT Professional also has a good adhesion on plastics: polystyrene, polycarbonate (Makrolon®), PVC, ABS, polyamide, PMMA, fiberglass reinforced epoxy, polyester. NOTICE: bonding plastics like PMMA (e.g. Plexi® glass), polycarbonate (e.g. Makrolon® or Lexan®) in stress loaded applications can give rise to stress cracking and crazing in these substrates. The use of Apolo Stick FX HT Professional is not recommended in these applications. There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates.

## Joint dimensions

*Min. depth for joints:* 5 mm

Recommendation sealing jobs: joint width = 2 x joint depth.

## Application method

*Application method:* With manual- or pneumatic caulking gun.

*Cleaning:* With Fix ALL Cleaner immediately after use.

*Finishing:* With a soapy solution or Soudal Finishing Solution before skinning.

*Repair:* With the same material

## Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult label for more information.

## Remarks

- Apolo Stick FX HT Professional 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.
- The drying time of alkyd resin based paints may increase.
- While producing plastics very often releasing agents, processing aids and other protective agents (like protection foil) are used. These should be removed prior to bonding. For optimum adhesion the use of Surface Activator is recommended.
- Apolo Stick FX HT Professional can be applied to a wide variety of substrates. Due to the fact that specific substrates such as plastics, like polycarbonate, etc, may differ from manufacturer to manufacturer, we recommend preliminary compatibility test.
- Apolo Stick FX HT Professional can not be used as a glazing sealant.
- Apolo Stick FX HT Professional can be used for adhering of and sealing on natural stone.
- When applying, make sure not to spill any sealant on the surface of materials.
- When applying, make sure not to spill any sealant on the surface of materials. Taping the surface around the joint can prevent this.
- A total absence of UV can cause a color change of the sealant.

## Environmental clauses

*Leed regulation:*

Apolo Stick FX HT Professional conforms to the requirements of LEED. Low –Emitting Materials: Adhesives and Sealants. SCAQMD rule 1168. Complies with USGBC LEED® 2009 Credit 4.1: Low-Emitting Materials – Adhesives & Sealants concerning the VOC-content.

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## 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.

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