

EMS FORCE® Pipe Sealant 5567

★ General information

EMS FORCE® anaerobic adhesive and sealants are advanced materials with single component and solvent free feature. The products are specifically formulated for sealing, retaining, locking and bonding of metal or metal plated assemblies.

Anaerobic adhesives are stable when in contact with oxygen in air. As the product is placed between two mating metallic surfaces, where oxygen contact is vanished, polymerization starts and forms strong, vibration and pressure proof polymer layer.

📄 Product description

EMS FORCE® Pipe Sealant 5567 is white, Teflon filled, high-viscosity and low strength anaerobic pipe sealant. Thixotropic formulation reduces run-off and migration of the product before assembly. It can be easily applied to threaded joints and removed easily with hand tools. With its specialized formulation, Pipe Sealant 5567 offers high temperature resistance. It shows instant low pressure resistance after application.

Main constituent	:	Methacrylate ester
Appearance (uncured)	:	Paste
Colour	:	Off-white
Viscosity	:	High and thixotropic
Strength	:	Low

🔪 Physical properties of uncured adhesive

Specific gravity Conditions: 22°C	:	1.10
Flash point Method: ASTM D56-05	:	>93°C
Temperature range	:	-50°C to 250°C
Corrosivity	:	Non-corrosive
Gap filling	:	up to 0.60mm
Viscosity Conditions: 22°C Method: ISO 2555 Apparatus: Brookfield RVT, spindle 7	:	400000 – 700000 cPs (@2.5 rpm)

🔒 Typical curing performance of adhesive

○ Curing time at room conditions

Various type of curing time of adhesive on several substrates are given as follows. Note that results can differ due to distance of bond gap and temperature.

Specimens	:	M10x25 bolt and proper nut
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Conditions : | 22°C

Handling time

Material of specimen	Duration
Brass	10 mins
Steel	30 mins
Stainless steel	60 mins
Zinc plated steel	60 mins
Aluminium	8 hours

Average functional curing time: 24 hours

Average full curing time: 7 days

🔧 Typical cured performance of adhesive

Performance of cured anaerobic adhesive is examined and resultant torque values are given below.

Test method	:	ISO 10964
Conditions	:	22°C
Specimens	:	Different type of nuts and bolts

Unseated assembly cured for 24 hours

Type of specimen	Breakaway Torque (T_{BA})	Prevailing Torque (T_p)
Zinc plated, M10	10 N.m	1 N.m
Stainless steel, M10	6 N.m	2 N.m
Steel, M10	10 N.m	1 N.m

☰ Directions for use

- Clean male and female threads before assembly with an absorbent tissue paper to remove any cutting oil.
- Apply the adhesive with a 360 turn to leading threads of the male and female fittings.
- Use an absorbent tissue paper to wipe off excess jointing compound in the direction of the thread.
- Assembly parts and hold on for 24 hours at 22-24°C to ensure full curing of jointing compound.
- For disassembly, use hand tools to remove mating parts. When it is hard to disassemble at room temperature, apply local heat until reaching 250°C and disassemble while hot. Then, remove any residual cured adhesive mechanically and clean parts with a proper solvent, acetone.

📦 Packaging

Bottles: 50mL and 250mL

Bulk: 1kg and 10kg

TDS

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Storage and shelf life

Keep product in its original container at 22°C and avoid to contact with direct sunlight. Storage below 5°C and above 30°C can negatively affect product properties.

Material removed from its original container can be contaminated during usage which affects both adhesive performance and storage life. Therefore, do not return contaminated product to the original container.

Metsan cannot take any responsibility for product which has been contaminated or stored under conditions different than previously indicated.

Shelf life: 24 months at 22°C



Health and safety

The product contains methacrylate esters.

For further information, please consult Safety Data Sheet (SDS) before use.

Disclaimer

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