



Technical Data Sheet

MASTERSIL[®] SMP 50

OEM Transport Grade MS Polymer Sealant

PRODUCT DESCRIPTION

Mastersil SMP 50 is an elastomeric, one-component, thixotropic paste based on silane-modified polymer (SMP) technology with excellent UV Resistance. **Mastersil SMP 50** is isocyanate & solvent free, fast curing, highly flexible and specifically designed for semi-structural bonding applications in the OEM transportation, automotive, vehicle assembly, marine, industrial and manufacturing industries.

Mastersil SMP 50 displays excellent adhesion to many substrates common to the automotive and manufacturing sectors, such as metals, composites, thermoplastics and fibreglass. **Mastersil SMP 50** is specifically designed to achieve a high Shore A hardness once cured, creating a rigid, semi-structural, high strength and flexible bond line between various substrates with lower dynamic movement. With advanced chemical composition, **Mastersil SMP 50** has been manufactured to allow for “Primer-less” bonding to difficult substrates while achieving a high level of chemical and salt water resistance.

FEATURES

- Solvent & isocyanate free
- Excellent adhesion
- Excellent UV Resistance
- Bonds a wide variety of substrates
- Permanently flexible
- Non-Slump
- Advanced UV Resistance
- High strength
- Good chemical resistance
- Paintable

SUITABLE MATERIALS

- Aluminium
- Stainless steel (various grades)
- Painted surfaces
- Glass
- Composite materials
- Thermoplastics
- Fibreglass
- Timber materials

NB: Pre-Adhesion tests should be carried out to ensure adequate performance and bond characteristics.



PROPERTY	MASTERSIL SMP 303	TEST METHOD
Type	Elastomeric, thixotropic paste	-
Slump characteristics	Non Slump	-
Colour	White, Grey, Black	-
Skin Time	10-15 minutes	-
Tack Free Time	40 min.	-
Curing Rate	2 - 3mm / 24hr	-
Viscosity	120,000 – 200,000 cPs	
Shore A Hardness	50	DIN 53505
Specific Gravity	1.6g/ml	-
Application temperature	5 to 40°C	-
Service temperature	-40 to 100°C (intermittent 120°C)	-
Tensile Strength	2.0 MPa (290psi)	DIN 53504
Strain-To-Failure	≥ 350%	DIN 53504
Solvent Content	None	



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LIMITATIONS

Mastersil SMP 50 is not recommended for use in aquariums, exposure to solvents / harsh chemicals, fuels, chlorine, strong acids & bases.

SURFACE PREPERATION

Surfaces to be bonded must be clean and dry, as well as free of wax, grease, dust and any other foreign materials so that the adhesive bond is not compromised. Metal substrates should be degreased with Admil Pro Clean Contact Adhesive Cleaner. For difficult to bond substrates, contact your Admil Adhesives representative for advice, information and/ to request laboratory conducted adhesion and performance testing.

APPLICATION INSTRUCTIONS

Cut nozzle at a sharp angle slightly wider than the desired bead. Extrude sealant with a gun and tool with a round spatula within 10 minutes to spread the sealant against the joint surfaces.

CURING

Cure speed is dependent upon the temperature, humidity, depth of sealant and substrate. Typically, a joint will form a firm skin in one hour and take up to seven days to fully cure. In cold or very humid climates, the cure time may extend beyond seven days.

PACKAGING

Mastersil SMP 50 is available in 300ml and 600ml sausages. Colours include White, Grey & Black.

SHELF LIFE & STORAGE

Minimum 12 months in sealed containers at 20°C. For optimum shelf life store in closed original containers out of direct sunlight between 10 and 25°C. Do not freeze.

DISPOSAL

Please dispose of empty containers and residue in accordance with your local waste management regulations.

SAFETY DIRECTIONS

First Aid

In use, please ensure that Occupational Health and Safety requirements are observed.

Eyes: Irrigate with water for 10 minutes and see a doctor.

Skin: Wash off with warm water and soap.

Ingestion: If swallowed, give plenty of water. Do not induce vomiting. Seek medical attention.

Notice

The information given and the recommendations made herein apply to our product(s) alone and not combined with any other product (s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guarantee of accuracy is made. It is the purchasers' responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.