



One-component-SM-Polymer Construction-Surface adhesive

MSP 3000 V2 was specially developed as a silicone-free, durable, elastic, moisture-curing surface adhesive for elastically bonded decks with prefabricated construction or with individual planks. MSP 3000 V2 has a high initial tack.

Due to the long open working time of up to 20 minutes, the fast through-hardening of up to 2.5 mm/24h and the Shore A hardness of approx. 50, MSP 3000 V2 is also ideally suited for bonding surfaces of different materials among and with each other (e.g. insulation materials, deck coverings such as TBS, Polygrip, Treadmaster or plastic decks made of e.g. PVC).

In preparation, the surfaces to be bonded must be adapted and the position indicated/marked. Surrounding surfaces can be protected from any exuding surface adhesive by masking. Surfaces must always be cleaned with Pantasol or Pantasol Light before bonding (sanding may be necessary). In the case of moisture-impermeable surfaces, it must be ensured that sufficient moisture is supplied to the surface adhesive (e.g. by wetting the surface with water mist).

During application, ensure that the surface adhesive is applied over the entire surface and "combed" in one direction using a suitable notched trowel. The notch size depends on how flat the surface is. After placing the parts to be glued, they must be pushed slightly back and forth so that the adhesive crests are flattened properly. Finally, the surfaces should be fixed or weighted down for the next 24 hours. On surfaces that have not been masked off, the excess surface adhesive must be removed with a spatula when fresh. Residues can be removed with a cloth soaked in Pantasol or Pantasol Light. Hardened surface adhesive can only be removed mechanically.

There are a variety of different surfaces. Not all of them can be sealed or glued. For example, PE (polyethylene), PPE (polyphenylene ether) or PTFE (Teflon®) cannot be bonded under normal conditions. Silicone or materials containing silicone are also difficult or impossible to bond. Other surfaces need to be specially treated so that an adhesive can anchor well. Our activator and primer were developed and manufactured for this purpose.

Activator (Order no. 3604) is used on non-absorbent surfaces such as metal, PVC, polyester or GRP to improve adhesion, especially on surfaces that are heavily exposed to water.

Primer (Order no. 3504) is used on slightly absorbent surfaces such as wood, teak, concrete, plaster or glazes to improve adhesion, especially on surfaces that are heavily exposed to water.

As a matter of principle, one should only use the primer from the manufacturer of the adhesive, i.e. always stay 'in the system'.

MSP 3000 V2 was designed to be a surface adhesive and is not suitable for use as plank deck caulking!

		Relative humidity (RH)								
		10%	20%	30%	40%	50%	60%	70%	80%	100%
Air tem- pera- ture	+ 35 °C	4*	7,9	11,9	15,8	19,8	23,8	27,7	31,7	35,6
	+ 30 °C	3,0	6,1	9,4	12,1	15,2	18,2	21,3	24,3	27,3
	+ 25 °C	2,3	4,6	6,9	9,2	11,5	13,8	16,1	18,4	20,7
	+ 20 °C	1,7	3,5	5,2	6,9	8,7	10,4	12,1	13,8	15,6
	+ 15 °C	1,3	2,6	3,9	5,1	6,4	7,7	9,0	10,3	11,5
	+ 10 °C	0,9	1,9	2,8	3,8	4,7	5,6	6,6	7,5	8,5
	+ 5 °C	0,7	1,4	2,0	2,7	3,4	4,1	4,8	5,4	6,1
	0 °C	0,5	1,0	1,5	1,9	2,4	2,9	3,4	3,9	4,4
	- 5 °C	0,3	0,7	1,0	1,4	1,7	2,1	2,4	2,7	3,1
	- 10 °C	0,2	0,5	0,7	0,9	1,2	1,4	1,6	1,9	2,1

Data source for table: German Insurance Association (GDV)

*g water / m³ air

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With publication of this data sheet, all previous versions cease to be valid.

MSP-3000 V2



Technical data

Tests	EMICODE EC-1 Plus "very low emission" / suitable for food processing app
Base	SM polymer
Odor	Neutral
Consistency	Medium viscosity - pasty
Shore hardness as per ISO 848	Approx. 50 Shore A
Density	1.55 g/cm ³
Tear strength as per ASTM D624	~ 6.50 N/mm ²
Shear strength as per DIN 52455-3	~ 0.86 N/mm ²
Elongation at break as per DIN 53504-S	Approx. 350%
Skinning time / open working time	Approx. 15 minutes at 23 °C/50% RH, approx. 30 minutes at 15°C/50% RH Note: analogous to other temperature specifications
Through-hardening	Approx. 2.5 mm/24 h at 23°C/50% RH Note: analogous to other temperature specifications
Curing	5 days at 23°C/50% RH Note: analogous to other temperature specifications
Working temperature	From +5 °C to max. +35 °C
Thermal stability	-40 °C to +90 °C without discoloration, short term up to +120 °C
UV resistance	Good
Shelf life	Closed 12 months, cool and dry
Storage temperature	Store original container tightly closed and dry at +15 °C to +25 °C without sunlight.
Chemical resistance	Good: against water, salt water, aliphatic solvents, oils, greases, diluted inorganic acids and alkalis. Moderate: against esters, ketones and aromatics. Not resistant to concentrated acids and chlorinated hydrocarbons.
Possible applications	Decks made of teak, cork and plastic, plywood boards, parquet and laminate, granite stone slabs, insulation boards, etc. Good for laying of individual planks.
For bonding	Precious wood and plywood, wood and cork, GRP, CRP, glass, PC, PMMA, carbon fiber, granite, rubber, bitumen, laminate, parquet, insulating material, polystyrene, many plastics.

*** The use of adhesion promoters should be checked/is necessary.**

Activator (Adhesion Promoter)

Activator / Wash Primer for non-absorbent surfaces	Can 300 ml - Order no. 3604
Primer / technical adhesive coat for slightly absorbent surfaces	Can 300 ml - Order no. 3504

Products

Container size	290 ml cartridge and 600 ml sausage
Article number	MSP-3000 290 ml - Order no. 3526 MSP-3000 600 ml - Order no. 3626

Accessories

Caulking gun Export 310 ml	Order no. 9150
Pro hand sealant gun COX 310 ml	Order no. 9155
Pro hand sealant gun COX 600 ml	Order no. 9160
Pneumatic sealant gun COX 310 ml	Order no. 9170
Pneumatic sealant gun COX 600 ml	Order no. 9180
COX ElectraFlow Plus 600 ml	Order no. 9185 (combination in case (battery gun))
Pantasol cleaner	Spray can 500 ml, Order no. 4010 Can 1,000 ml, Order no. 4210
Pantasol Light cleaner	Spray can 500 ml - Order no. 4012 Can 1,000 ml - Order no. 4212
Latex gloves, 100 pcs, white	Size M - Order no. 5500 size L - Order no. 5501 size XL - Order no. 5502
Smoothing agent	Pump spray 250 ml, Order no. 4004 Bottle 500 ml Order no. 4005 Bottle 1 l Order no. 4006.

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