

Autoclear Mat

FOR PROFESSIONAL USE ONLY

Description

Two-pack, colourless matting finish for application over hard dry topcoats, Autobase, Autobase Plus or Autowave. If applied in conjunction with one of the specifically mentioned Sikkens clearcoats any desired gloss level can be achieved by reduce the gloss level of the clearcoat mixed with.

Product and additives

Autoclear Mat

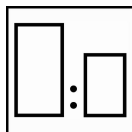
Basic raw materials

Autoclear Mat: Polyester resin
Clearcoat Hardeners: Poly-Isocyanate resins

Suitable substrates

Existing (hard dry) finishes
Autobase Plus
Autowave
Autowave 2.0
Note: check basecoat TDS for clearcoat suitability.

Gloss level adjustments



The following gloss levels can be achieved by mixing Autoclear Mat by volume in different ratios with the available Sikkens clearcoat. Mixing ratios can differ per clearcoat. The gloss level is an indication and should be judged by the structure/gloss level swatch but preferably by spray outs.

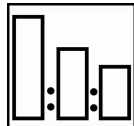
Gloss level	Clearcoat by volume	Autoclear Mat by volume
High gloss	100	0
Semi gloss	70	30
	50	50
	30	70
Matt	0	100

Read complete TDS for detailed product information

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Mixing



After the gloss level is determined, mix the Autoclear Mat with the required amount of clearcoat. Then follow the indicated mixing ratios with hardener and reducer according to the clearcoat TDS.

The following clearcoats require deviating mixing ratios from the TDS when mixed with Autoclear Mat:

Autoclear Plus HS

Autoclear Mat	Autoclear Plus HS
100	0
50	50

Clearcoat mix	P Hardener	Plus Reducer
100 parts	50 parts	30 parts
100 parts	50 parts	10 parts

Autoclear Rapid

Autoclear Mat	Autoclear Rapid
100	0
50	50

Clearcoat mix	P Hardener	Plus Reducer
100 parts	50 parts	30 parts
100 parts	50 parts	10-20 parts

Autoclear Mat	Autoclear Rapid
100	0
50	50

Clearcoat mix	Autoclear Rapid Hardener	Plus Reducer
100 parts	50 parts	20 parts
100 parts	50 parts	10-20 parts

Autoclear LV Superior

Autoclear Mat	Autoclear LV Superior
100	0
50	50

Clearcoat mix	LV Superior Hardener	LV Superior Reducer
3 parts	1 part	1 part
3 parts	1 part	1 part

Autoclear LV & Autoclear LV Slow

Autoclear Mat	Autoclear LV / LV Slow
100	0
70	30
50	50
30	70

Clearcoat mix	LV Hardener	LV Reducer
3 parts	1 part	1 part
100 parts	50 parts	10 parts
100 parts	50 parts	10 parts
100 parts	50 parts	10 parts

Pot-life

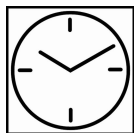
Autoclear	4 hours	at 20°C
Autoclear LV Supreme	1½ hours	at 20°C
Autoclear Plus HS	3-4 hours	at 20°C
Autoclear Basiq HS Fast	2-3 hours	at 20°C
Autoclear Basiq HS Slow	3-4 hours	at 20°C
Autoclear LV Superior Fast	30 minutes	at 20°C
Autoclear LV Superior Medium	1 hour	at 20°C
Autoclear LV Superior Slow	1½ hours	at 20°C
Autoclear LV (Slow)	30 minutes	at 20°C

In general the pot life indicated in the TDS of the above mentioned clearcoats can be used as guideline.

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Drying times



The drying is dependent on the mixing ratio of Autoclear Mat and the selected clearcoat. Drying times of these clearcoat mixtures will be slightly longer than indicated at the selected clearcoat TDS.
The following drying times are for 100% Autoclear Mat when mixed with indicated clearcoat hardener:

Hardeners	20°C	60°C
P25 Hardener	4 hours	30 minutes
P35 Hardener	5 hours	55 minutes
P45 Hardener	6 hours	60 minutes
Basiq HS Hardener Fast	4 hours	30 minutes
Basiq HS Hardener Slow	5 hours	55 minutes
Autoclear LV Supreme Hardener		35 minutes
Autoclear LV Superior Fast		35 minutes
Autoclear LV Superior Medium		45 minutes
Autoclear LV Superior Slow		60 minutes
Autoclear LV Classic		45 minutes
Autoclear LV (Slow)		35 minutes



Allow 5 minutes flash off prior to infra red curing
The panel temperature should not exceed 100°C.
For additional infra red drying information; see TDS S9.01.01

Material usage

Autoclear Mat is a medium solid clearcoat. The material usage of a medium solid clearcoat is higher than any high solid clearcoat. The higher the concentration of Autoclear Mat in the clearcoat mixture, the higher the theoretical material usage will become and is therefore not reliable to indicate.

The practical material usage depends on many factors i.e. shape of the object, roughness of the surface, application techniques, pressure and application circumstances.

Cleaning of equipment

Sikkens Solvent or solvent borne guncleaners

VOC

2004/42/IIb(e)(840)620

The EU limit value for this product (product category: IIb. e) in ready to use form is max. 840 g/liter of VOC.
The VOC content of this product in ready to use form is max. 620 g/liter.

VOC level overview:

Hardener:

P15 Hardener	613 g/ liter
P25 Hardener	613 g/ liter
P35 Hardener	613 g/ liter
P45 Hardener	613 g/ liter
Autoclear LV Supreme Hardener	400 g/ liter
Autoclear LV Superior Hardener (100:60:20)	564 g/ liter
Autoclear LV Classic Hardener	564 g/ liter
Autoclear LV Hardener	543 g/ liter

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Product storage

Product shelf-life is determined when products are stored unopened at 20°C.
Avoid extreme temperature fluctuation.

- *Product shelf life data see TDS S9.01.02*

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FOR PROFESSIONAL USE WITH SUITABLE HS&E EQUIPMENT

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advices given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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