



Technical data sheet

IGP-RAPID®primer 854SA-E2

Highly reactive primer to optimally prepare MDF substrates for overcoating with powder coatings.



Characteristics

- Silk gloss
- Var. fine texture
- Uni, without effect
- Indoor quality
- More pliable



Powder properties

Particle size:	< 100 µm
Solids:	> 99 %
Density:	1.3 kg/l-1.6 kg/l
Suitability for storage:	min. 6 months at ≤ 15 °C min. 12 months at ≤ 5 °C in an unopened original container
Color tones:	ca. NCS S 0500-N ca. NCS S 5000-N



Processing

Pre-treatment

If the surface finish of the MDF ex-works does not meet the quality requirements of the end product, the surface has to be sanded. This will ensure that the material has an evenly smooth surface and is free of any contaminants, minor scratches, dust, grease, etc. For more information, see IGP-TI 111.

Coating devices

All conventional electrostatic systems with corona charging.

For the construction and operation of powder coating plants, the following regulations must be complied with: ATEX RL 2014/34/EU, EN 50177, DIN EN 16985.

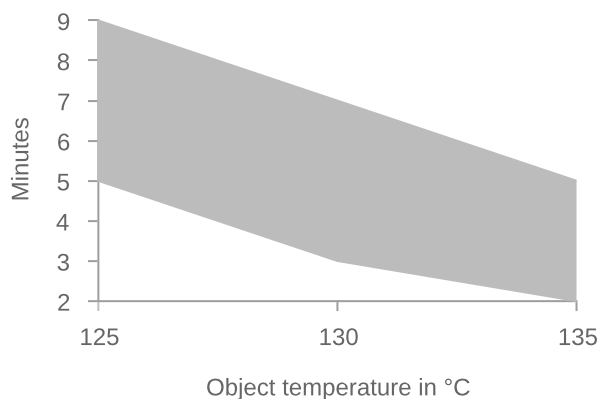
Recommended film thickness

80 µm - 100 µm

A homogeneous coating result with textured paints or colour or article-specific differences in hiding power may require higher Film thicknesses. The corresponding processing guidelines must be observed.

For a preliminary calculation of the required powder coating quantity, the required Film thickness must be determined for each specific article.

Curing conditions



T _{Object}	t _{min}	t _{max}
125 °C	5 minutes	9 minutes
130 °C	3 minutes	7 minutes
135 °C	2 minutes	5 minutes

Due to the limited thermal conductivity, the use of infrared- (electric / gas catalytic) or convectional - infrared combined ovens is recommended.

In order to determine ideal curing conditions, we recommend practical trials with the respective object and curing oven.

The curing conditions must be carefully controlled. Powder coatings cured outside the curing window may show deficiencies in the film flexibility. Our technical customer service will advise you.

Application

For optimal coating and surface quality, please follow the recommendations in technical information TI111

Reclaimability

Small portions of recycled powder can be added, automatically if possible, to the fresh powder. Important: Keep overspray to an absolute minimum.



Film properties

Tested on

Tested setting:

Tested with 381M with a total film thickness > 160µm

Object temperature:

130 °C, 3 min.

Mechanical tests

Hinge Hole Test

≤ 1.1

IGP AA341.42



Further information

Packaging

20 kg cardboard box with inserted antistatic PE liner

Paint removal and disposal

After use, coated goods should be supplied to the normal recycling process. The disposal methods for sludges or residual powders must be observed in accordance with the local official provisions whilst taking Waste Code "080201 Coating Powder Wastes" in accordance with the European Waste Catalogue into consideration.

This application-related advice is given to the best of our knowledge. However, this information is non-obligatory and does not exempt you from carrying out your own tests. Application, use and processing of these products are beyond our control and are therefore on your responsibility.

Consult the Safety Data Sheet prior to use. Article-specific safety data sheet and comprehensive risk management measures available at: [igp-powder.com](https://www.igp-powder.com)