

# Hempel's Selecta Metalni Efekt DTM

## Product characteristics

### Description

Hempel's Selecta Metalni Efekt DTM is a high-quality coating based on modified epoxy. It is pigmented with micaceous iron oxide (MIOX) that gives it special texture and twinkling sheen. According to the "Regulation on threshold limit values of VOC in some paints and varnishes used in civil engineering and finishing products for car industry" (Official Gazette 69/2013) it has in 2010 been classified in sub-category (i) - HOS < 500 g/l.

### Recommended use

Hempel's Selecta Metalni Efekt DTM is recommended for interior and exterior metal surfaces (steel, aluminium, copper, stainless steel), PVC and other types of plastic material. It can be applied in the temperature range +10°C to +30°C. It is intended to be applied directly on the substrate in two coats or in one coat on top of the primer Hempel's Selecta Uniprimer (155HR).

### Service temperature:

- Maximum, dry exposure only: 130°C [266°F].

## Product safety

**Flash point** 35°C [95°F]

### VOC content

Legislation	Value
EU	471 g/L [3.93 lb/US gal]
US (coatings)	470 g/L [3.92 lb/US gal]
US (regulatory)	471 g/L [3.93 lb/US gal]
China	471 g/L [3.93 lb/US gal]

According to specific legislation, see details in the Explanatory Notes available at Hempel website, [hempel.com](http://hempel.com) or at your local Hempel website. VOC values may vary with shade, please consult the Safety Data Sheet, section 9.

### Handling

Handle with care. Before and during use, observe safety labels on packaging and paint containers and follow all local and national safety regulations. Always consult Hempel's Safety Data Sheet for this product along with the Product Data Sheet.

For professional use only.

## Product data

### Product code

530HR

### Standard shade\* / code

Dark grey 1H980 \*\*

### Gloss

Flat

### Volume solids

47 ± 2%

### Specific gravity

1.5 kg/L [12 lb/US gal]

### Reference dry film thickness

50 micron [2.0 mils]

### Aluminium shade\* / code

Light grey 1H960 \*\*\*

### Gloss

Please consult Hempel's Guideline on aluminium pigmented coatings.

### Volume solids

47 ± 2%

### Specific gravity

1.4 kg/L [12 lb/US gal]

### Reference dry film thickness

50 micron [2.0 mils]

\* Other shades are available, please contact your local Hempel representative.

\*\* Colour stability may be affected by exposure to harsh chemical and/or high temperatures.

\*\*\* Appearance of the aluminium pigmented coats will depend on application method, drying conditions, handling etc. Please see the Guideline on Aluminium pigmented coatings at [hempel.com](http://hempel.com) or at your local Hempel website.

# Hempel's Selecta Metalni Efekt DTM

## Surface preparation

### Cleanliness

- Remove oil, grease and other contaminants by suitable detergent cleaning.
- Remove salts, detergents and other contaminants by high pressure fresh water cleaning.

### New build:

- According to Hempel's Specification.

### Maintenance and Repair

- According to Hempel's Specification.

Consult Hempel's separate Surface Preparation Guidelines for more details.

## Application

### Mixing ratio

Stir well before use.

### Thinner

Hempel's Thinner 08081

### Cleaner

Hempel's Thinner 08081

### Application method

Tool	Thinning max vol.	Application parameters
Airless spray	5%	Nozzle pressure: 150 bar [2200 psi] Nozzle orifice: 0.017-0.021"
Air spray	5%	Not Applicable.
Brush	5%	Not Applicable.
Roller	5%	Not Applicable.

If brush or roller application is used, more coats will be necessary to achieve the specified dry film thickness. Spray data are indicative and subject to adjustment. Pressure is for a material temperature of 20°C [68°F].

### Film thickness

Specification range	Low	High	Recommended
Dry film thickness	40 micron [1.6 mils]	60 micron [2.4 mils]	50 micron [2.0 mils]
Wet film thickness	80 micron [3.5 mils]	125 micron [5 mils]	110 micron [4 mils]
Theoretical spreading rate	12 m <sup>2</sup> /L [490 sq ft/US gal]	7.8 m <sup>2</sup> /L [320 sq ft/US gal]	9.4 m <sup>2</sup> /L [380 sq ft/US gal]

Product may be specified in another film thickness than indicated depending on purpose and area of use. This will alter spreading rate, drying and curing time and overcoating interval. For best performance, avoid excessive film thickness.

### Application conditions

- To avoid condensation, apply on a clean and dry surface with a temperature that is at least 3°C [5°F] above the dew point.
- Surface temperature must be above 10°C [50°F] during application and curing.
- Surface temperature must be below 30°C [86°F] during application and curing.

### Application remarks

- Two coats of the topcoat may be necessary to obtain full hiding power.

## Drying and overcoating

### Product compatibility

- Previous coat: Recommended product is: Hempel Selecta Uni Primer 155HR
- Subsequent coat: None or according to Hempel's specification. Recommended product is: Hempel Selecta Metalni Efekt DTM 530HR

### Drying time

Surface temperature		10°C [50°F]	20°C [68°F]	30°C [86°F]
Touch dry	min	60	30	30
Hard dry	hours	3	2	1½

Determined for dry film thickness 50 micron [2.0 mils] at standard conditions, see Hempel's Explanatory Notes for details.

# Hempel's Selecta Metalni Efekt DTM

## Drying conditions

- To obtain the drying time stated, it is important to maintain sufficient ventilation during application, drying and curing.
- Condensation on the freshly applied coating should be avoided.

## Overcoating details

- If the maximum overcoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion.
- The surface must be clean before overcoating.

## Other remarks

- Due to the content of micaceous iron oxide (MIO), minor deviations in shades may be observed, therefore it is recommended to use the same batch of a particular product shade. For a more pronounced texture (rustic look), it is recommended to apply one coat of Hempel Selecta Uni Primer 155HR and, as a topcoat, one coat of Hempel Selecta Metalni Efekt DTM 530HR.
- Hempel's Specification supersedes any recommendations given in the Product Data Sheets.

## Storage

### Shelf life

<b>Ambient temperature</b>	<b>25°C</b> [77°F]
<b>Product</b>	60 months

Shelf life from date of production, when stored in original, unopened containers. Thereafter, the product quality must be re-inspected. Always check the best before date or expiry date on the label.

## Additional documents

Additional information is available at the Hempel website [hempel.com](http://hempel.com) or at your local Hempel website:

- Explanatory Notes explaining the fields in this Product Data Sheet.
- Surface Preparation Guidelines.
- Application Guidelines for different application methods.
- General Application Guidelines

This Product Data Sheet ("PDS") relates to the supplied product ("Product") and is subject to updating from time-to-time. Accordingly, the buyer/applicator should have regard to the PDS supplied together with the relevant batch of the Product (and not an earlier version). In addition to the PDS, the buyer/applicator may receive some or all of the following specifications, statements and/or guidelines as listed below or as are available from the Hempel website under 'Products' at [www.hempel.com](http://www.hempel.com) (the "Additional documents"):

No.	Document description	Location/comments
1.	Technical Statement	One-off specific advice provided on request for specific projects
2.	Specification	Only issued for specific projects
3.	PDS	This document
4.	Explanatory Notes to the PDS	Available at <a href="http://www.hempel.com">www.hempel.com</a> and contain relevant information about the Product testing parameters
5.	Application Instruction	Where available, at <a href="http://www.hempel.com">www.hempel.com</a>
6.	Generic technical guidelines (e.g. on application and surface preparation)	Where available, at <a href="http://www.hempel.com">www.hempel.com</a>

In the event of a conflict of information between the PDS and the Additional documents, the order of priority of information shall be in the order as set out above. In such event you should also contact your representative at Hempel for clarification. Furthermore, the buyer/applicator must have full regard to the relevant Safety Data Sheet provided with each Product and which can also be downloaded from [www.hempel.com](http://www.hempel.com).

Hempel shall not be liable for defects where the application of the Product has not been made fully in accordance with the recommendations and requirements set out in the relevant PDS and the Additional Documents. The information and terms of this disclaimer apply to this PDS, the Additional documents and any other documents supplied by Hempel in respect of the Product. In addition, the Product is supplied and all technical assistance is given subject to Hempel's General Conditions of Sale, Delivery and Service, unless otherwise expressly agreed in writing.