

vebrodeck MMA Topcoat (Base)

(Hardened with **vebro** MMA Catalyst)

vebro MMA Topcoat (Base) is a medium viscosity, pre-filled, un-pigmented methyl-methacrylate coating for use on broadcast systems both indoors and out.

vebrodeck MMA Topcoat (Base) is mixed with a dry powder catalyst, such as **vebro** MMA Catalyst, to trigger a reaction, which rapidly hardens the material.

vebrodeck MMA Topcoat (Base) is pigmented on site, where it is typically used in industrial or car park applications to seal coarse slip-resistant aggregates.

vebrodeck MMA Topcoat (Base) delivers a gloss finish fully trafficable and UV resistant wearing surface.

Component	Small
vebrodeck MMA Topcoat (Base)	25.0 kg
Total Unit:	25.0 kg*

*See **Catalyst Addition** table for recommended hardener dosage and **Pigments** section for recommended pigment dosage. .

- ✓ Excellent self-levelling properties
- ✓ Temperature resistant to 60°C
- ✓ Medium viscosity
- ✓ Suitable for use indoors and outdoors

Density

1.20 kg / ltr

Unit Weight

25.0 kg (20.8 ltr)

Flash Point

+10°C

Coverage

Dependent on use. See **Consumption** section for further information.

HS Code

2916142020

Consumption

The recommended consumption of **vebrodeck** MMA Topcoat is:

First Coat: 0.60 kg / m²

Second Coat: >0.50 kg / m²

See **Mix Design** table for further information.

Working Time

~15 minutes @ 20°C (usable working life of material following mixing and immediate spreading as per the application instructions).

Overcoating Time

After 45 minutes @ 20°C

Speed of Cure

- Light Foot Traffic – 45 minutes
- Full Chemical Cure – 2 hours

Application Temperature

~10 – 25°C is recommended. Outside of this range, heating or cooling equipment should be used to achieve ambient conditions.

Storage & Shelf Life

All components should be stored off the ground, in a cool dry area, away from direct sunlight between 10 – 25°C. Materials will keep for 6 months in the closed original container and provided the above storage conditions have been met.

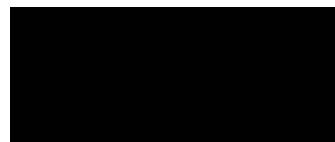
*These coverages are theoretical and may vary due to a number of factors including the condition of the substrate. It is the applicator's responsibility to ensure the substrate has been surveyed and tested. A recommended 5% wastage addition is advised on all orders.

Colours

MMA pigments



RAL 7037 Dusty Grey



RAL 9003 Signal White



RAL 9017 Traffic Black



RAL 5017 Traffic Blue



RAL 6024 Traffic Green



RAL 7042 Traffic Grey A



RAL 3020 Traffic Red



RAL 1023 Traffic Yellow

Please note, the applied colours may differ from the examples shown. Epoxy materials may exhibit a yellowing effect over time resulting from thermal, UV or chemical exposure. This will be more pronounced on light grey or blue shades. Colours outside of our standard range may incur an additional supplement. The manufacture of epoxy flooring is a batch process and despite close manufacturing tolerances, minor variations in shade may occur between batches.

Mix Designs

Product	Coating <1.0 mm	Linemarker
vebrodeck MMA Topcoat (Base)	92.0 – 95.0%	25.0 kg
vebro MMA Pigment Pack	5.0 – 10.0%	1.25 – 2.5 kg
Av. consumption:	0.60 kg / m² (one-coat) 1.10 kg / m² (two coats)	0.60 kg / m² (one-coat) 1.10 kg / m² (two coats)
vebro MMA Catalyst (by weight of liquid content)	1.0 – 6.0 %	0.25 – 1.50 kg
		1.0 – 6.0 %
		0.25 – 1.50 kg

Pigments

The pigments used for to colour MMA materials are typically inorganic. They are stirred into the resin together with any fillers prior to adding the **vebro** MMA Catalyst.

You must ensure that the dispersant contains no lumps. This applies particularly for mixtures which do not contain sand as coarse particles, such as top coats.

The quantity of pigment to add depends on the type of pigment and the desired coat thickness. 2.0 – 5.0% is adequate for coatings above 2.0 mm. On the other hand, at least 10.0% pigment is required for thin roll-on formulations such as line markers applied at less than 0.5 mm, or 5.0 – 10.0% for coating installed in a two-coat application.

vebro MMA Pigment packs can be supplied in many standard RAL shades and sizes.

Carbon black is not suitable as a black pigment, as it leads to hardening problems. The same applies for grey shades which contain black pigment alongside titanium dioxide as the white pigment.

We advise not to use untested pigments, as these may lead to incompatibility with the resins and ultimately curing problems.

Substrate Requirements

The surface must exhibit a minimum compressive strength of 25 N/mm² and an adhesive strength of 1.5 N/mm². The surface must be clean and free of dust and loose particles. All traces of contaminants, including oils, fats, grease, paint, chemical and laitance should be removed. Any cracks or damage should be properly remedied prior to application.

vebrodeck MMA Topcoat (Base) + vbro MMA Pigment is designed for use on broadcast MMA body coats.

Application Instructions

Application Temperature

Prior to application, the material should be heated to an ambient temperature (air and floor temperature).

Mixing

Mix **vebrodeck MMA Topcoat (Base)** along with any pigment components as described above until the mixture is smooth, homogenous and there are no large lumps.

Add the required amount of **vebro** MMA Catalyst to the resin component and mix for two minutes. Use a slow speed drill and helical spinner, taking care not to entrain air.

The necessary quantity of **vebro** MMA Catalyst must be adjusted in light of the temperature of the surface. For the exact quantities, please refer to the table below:

Catalyst Addition

Temperature	Catalyst	Pot Life	Curing Time
0 °C	6.0%	20 mins	50 mins
+10 °C	4.0%	20 mins	45 mins
+20 °C	2.0%	15 mins	30 mins
+30 °C	1.0%	12 mins	25 mins

You must not dose less than the given quantity of **vebro** MMA Catalyst, as this will adversely affect the curing process. You must also avoid overdosing the **vebro** MMA Catalyst, as this can likewise lead to serious curing problems.

If the pot life, within which good penetration of the substrate is guaranteed, is to be observed, appropriate batch quantities should be estimated. The material must be applied as soon as the **vebro** MMA Catalyst has completed dissolving within the resin components.

The material must be used immediately.

Application

The pigmented **vebrodeck MMA Topcoat (Base)** is applied to the cured broadcast and vacuumed surface by rubber squeegee or roller to the desired thickness.

The application of the system requires special skills and practice to avoid pores and air bubbles within the surface.

Allow the first coat to cure before overcoating with a second coat of **vebrodeck MMA Topcoat (Base)** + **vebro** MMA Pigment.

Overcoating

Overcoating should be carried out within 24 hours of application. If longer than 24 hours it will be necessary to lightly grind the surface by mechanical means before overcoating is carried out.



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Supplied by:	Vebro Polymers UK Limited, Argyle House, Stanley Green Trading Estate, Epsom Avenue, Handforth, Wilmslow, Cheshire, SK9 3RN, United Kingdom		
Harmonised Standard	EN 13813:2002 (System 4)		
Intended Use:	Synthetic resin screed materials for use internal use		
Reaction to Fire	Efl*	Release of Corrosive Substances	SR
Wear Resistance	AR1	Bond Strength	>B1.5

*Improved results of Bfl, Cfl are achieved when tested as part of the completed system.

Further Information

Information relating to the safe handling of this product can be found in the Material Safety Data Sheet. Local regulations concerning the safe handling of resin based coating materials must be observed. Suitable protective clothing including eye protection must be worn at all times.

All consumptions listed are for recommendation purposes only. Detailed application instructions and system build-up advice can be provided on request through our Technical Services team.

Vebro Polymers' systems and products are guaranteed against defective material and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which can be obtained on request.

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