



Rescryl M205



**Two-component
general purpose binder
based on MMA**



WHERE TO USE

Rescryl M 205 can be used as a general purpose binder for MMA coatings for floors used in warehouses, in industries, production areas or similar applications.

Rescryl M 205 is used in system **Rescryl TR**, **Rescryl BC** and **Rescryl SL**.

Rescryl M 205 is normally applied on concrete and other cement-based substrates.

TECHNICAL CHARACTERISTICS

Rescryl M 205 has excellent curing characteristics.

Rescryl M 205 has good chemical and wear resistance.

Rescryl M 205 is easy to apply.

Rescryl M 205 can be used for wet and dry production areas.

Rescryl M 205 can be used for indoor and outdoor applications.

Rescryl M 205 complies with the principles defined in EN 1504-9 standards ("Products and systems for protecting and repairing concrete structures. Definitions, requirements, quality control and conformity assessment. General principles for the use and application of systems"), and the requirements of EN 1504-2 ("Protection systems for concrete surfaces") for class: products for protecting surfaces - coating (C) – PI, PR and CR.

Rescryl M 205 complies with EN 13813.

APPLICATION PROCEDURE

Preparation of the substrate:

The concrete must be sound, clean and dust-free with

a smooth permanent surface. Completely remove all irregular or loose parts, cement laitance, dust, paint, oil, form-release compounds and any other undesired material from the surface of the substrate before applying the product. Normal cleaning methods such as milling, grinding or shot blasting can be used.

Preparation of the product:

Prior to use **Rescryl M 205** must be carefully stirred to achieve a uniform distribution of the paraffin contained in the product.

Mixing:

Rescryl M 205 is thoroughly mixed together with **Rescryl H2** in accordance with the below guidelines.

It should be noted that the amount of **Rescryl H2** to be added depends upon the temperature;

- at 30 °C add 1 % by weight of **Rescryl M 205**.
- at 20 °C add 2 % by weight of **Rescryl M 205**.
- at 10 °C add 4 % by weight of **Rescryl M 205**.
- at 0 °C add 5 % by weight of **Rescryl M 205**.
- below 0 °C add 5 % by weight of **Rescryl M 205** and additionally add **Rescryl 404**, which is an accelerating agent.

NOTE: Weight to Volumetric conversion of **Rescryl H2**;

- 1 cm³ of **Rescryl H2** weighs 0.64 g.
- 1 g of **Rescryl H2** = 1.57 cm³.

Rescryn M 205: Two-component coating based on MMA designed for substrate like concrete. The product complies with specification in EN 13813 and EN 1504-2 Coating (C) principles: PI, PR and CR

TECHNICAL DATA (typical values)

PRODUCT DETAILS

Colour:	transparent
Appearance:	thin liquid
Density (g/cm³) (ISO 2811):	0.99
Viscosity at +25 °C (mPa*s) (DIN 53018)	130 - 170

APPLICATION DATA

Mixing ratio:	- see application procedure
Pot life / Processing time at +20 °C	approx. 15 min.

FINAL PROPERTIES

Curing time at +20 °C:	approx. 40 min.
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Performance characteristics for product or system	Test methods	Requirements according to EN 13813 for synthetic resin screeds	Product or system performance
Wear resistance:	EN 13892-4	< AR1	< AR1
Bond strength:	EN 13892-8:2004	> 1.5 N/mm²	> 2.0 N/mm²
Impact resistance:	EN 6272-1	> IR4	> IR4
Reaction to fire:	EN 13501-1	declared value	E _{fl}
Performance characteristics for product or system	Test methods	Requirements according to EN 1504-2	Product or system performance
Abrasion resistance:	EN ISO 5470-1	< 3000 mg H22/1000 cycles/load 1000 g	< 3000 mg
Permeability to CO₂:	EN 1062-6	Permeability to CO ₂ S _D > 50 m	S _D > 50 m
Water vapour permeability:	EN ISO 7783	Class I: S _D < 5 m, Class II: 5 m < S _D < 50 m, Class III: S _D > 50 m	Class III
Capillary absorption and permeability to water:	EN 1062-3	w < 0,1 kg/m²h ^{0.5}	w < 0,1 kg/m²h ^{0.5}
Resistance to severe chemical attack Class I: 3 days with no pressure Class II: 28 days with no pressure Class III: 28 days with pressure We recommend using test liquids for the 20 classes indicated in EN 13529, which covers all the most common chemical agents. Other test liquids may be agreed upon between those interested in the tests.	EN 13529	Reduction of hardness less than 50 % when measured according to the Buchholz method, EN ISO 2815 or the Shore method (EN ISO 868), 24 hours after removing the coating material from immersion in the test liquid.	Class II - see separate lists
Impact resistance:	EN 6272-1	Class I: > 4 Nm, Class II: > 10 Nm, Class III: > 20 Nm	Class I
Pull-off test Reference substrate: MC (0.40) as specified in EN 1766, curing time 7 days:	EN 1542	Average (N/mm²) Crack-bridging or flexible systems: - With no traffic: ≥ 0.8 (0.5) - With traffic: ≥ 1.5 (1.0) Rigid systems: - With no traffic: ≥ 1.0 (0.7) - With traffic: ≥ 2.0 (1.0)	> 2.0 N/mm²
Reaction to fire:	EN 13501-1	Declared value	E _{fl}

Performance determined for use in systems **Rescryn SL, BC or TR**.

Please contact Mapei Technical Service for further details.

Application of the product: System Rescrl TR

The concrete substrate should always be primed with **Rescrl P 101** or **Rescrl P 107** before installation. The already prepared mix of **Rescrl M 205** and **Rescrl H2** should be added **Mapequarz Color Akrylmix 7 - 8** in a ratio of 1:3.5 by weight – and then proper mixed until it is completely homogenous. Apply the mix in an even thickness of 4 - 5 mm by rake, and smooth the surface with an American trowel. Take special note take the mix does not separate – leaving areas with a surplus of binder on parts of the surface. This could cause to visual defects in the surface. After curing of the product apply at least two layers of topcoat like **Rescrl TC 305** alternatively other product in the **Rescrl TC**-series.

System Rescrl BC

The concrete substrate should always be primed with **Rescrl P 101** or **Rescrl P 107** before installation. The already prepared mix of **Rescrl M 205** and **Rescrl H2** should be added **Mapefloor SL HD Comp. C** in a ratio of 1:2 by weight – and then proper mixed until it is completely homogenous. Apply the mix in an even thickness of 2-3 mm by rake, and scatter the surface immediately to excess with **Mapequarz Color 0.3 - 0.8 mm** or **Mapequarz Color 0.7 - 1.2 mm**. After curing of the product - remove any loose sand before applying at least two layers of topcoat like **Rescrl TC 319** alternatively other product in the **Rescrl TC**-series.

System Rescrl SL

The concrete substrate should always be primed with **Rescrl P 101** or **Rescrl P 107** before installation. The already prepared mix of **Rescrl M 205** and **Rescrl H2** should be added 2 - 4 % of suitable pigment dispersion, and mixed until it is homogenous before **Mapefloor SL HD Comp. C** is added in a ratio of 1:2 by weight – and then properly mixed again. Apply the mix in an even thickness of 2 - 3 mm by a v-touted spatula or a rake. If requested the fresh coating can be decorated by spreading **Mapefloor Flakes**. After curing of the product apply at least two layers of topcoat like **Rescrl TC 307** alternatively other product in the **Rescrl TC**-series. If **Mapefloor Flakes** are used as decoration it is recommended to apply at least 3 layers of topcoat is. The surface can also be grinded

before each application in order to remove any irregularities.

NOTE: Please contact Mapei Technical service concerning the type of pigment dispersion to be used. Preliminary test are required in order to check compatibility.

CLEANING

Tools and equipment must be washed immediately after use with Acetone or other cleaning agent suited for MMA. Once hardened the product may only be removed mechanically.

CONSUMPTION

Applied as:

Rescrl TR;

- approx. 1.5 kg/m² for 4 - 5 mm coating.

Rescrl BC;

- approx. 1.5 kg/m² for 4 - 5 mm coating.

Rescrl SL;

- approx. 1.5 kg/m² for 3 mm coating.

The consumption is depending on the temperature and the substrate's coarseness and absorption.

PACKAGING

20 kg cans and 180 kg drums.

Rescrl H2 is sold separately.

STORAGE

Properties for use are not changed for a period of 6 months if stored in a cool dry place in original packaging. The optimal storage temperature is +15 and + 20°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

Instructions for the safe use of our products can be found on the latest version of the SDS available from our website www.mapei.no

PRODUCT FOR PROFESSIONAL USE

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above - information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the technical data sheet, available from our web site www.mapei.no

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