

RESCRYL P 100

Two-component, clear, low viscosity MMA primer designed for concrete and cement-based substrates

DESCRIPTION

Rescryl P 100 is a clear, low viscosity two-component methyl methacrylate reactive resin which ensures good adhesion between the substrate and the MMA coatings used in different applications. It can be used as a standard primer within our range of **Rescryl** systems.

Rescryl P 100 has superior penetration thanks to its low viscosity and is ideal for good adhesion to the substrate and is normally used on concrete and cement-based substrates for the **Rescryl** range of products.

TECHNICAL CHARACTERISTICS

Rescryl P 100 is a clear, very fast curing primer used even at low temperatures. The application reduces the downtime and ensures a very quick return to service at the site.

Rescryl P 100 must have the **Rescryl H3** catalyst hardener added before application.

Rescryl P 100 complies with the principles defined in EN 13813 "*Screeds and materials for screeds - Materials for screeds - Properties and requirements*" which is the European Standard that specifies the requirements for screed material used in the construction of internal floors.

WHERE TO USE

Rescryl P 100 has a wide area of use in several applications such as coating floors in:

- Parking areas and garages.
- Workshops and mechanized warehouses.
- Food and beverage industries e.g., bakeries, poultries, dairies, slaughterhouses, breweries.
- Industrial kitchens, canteens, and cafes.
- Seafood and fish farming industry.
- Shops, showrooms, and public areas.
- Production areas in chemical and pharmaceutical industry.
- Industrial floorings in general.

RECOMMENDATIONS

- Do not apply **Rescryl P 100** on damp substrates or on substrates with capillary rising damp (please contact MAPEI Technical Services).
- Do not dilute **Rescryl P 100** with solvent or water.
- Do not apply **Rescryl P 100** on dusty or crumbling substrates.
- Do not apply **Rescryl P 100** on substrates with oil or grease stains or stains in general.
- Apply **Rescryl P 100** on substrates after mechanically preparing them according to the recommendations below.
- Do not expose the mixed product to sources of heat.
- Protect the product from water until the product is fully cured.
- Do not apply the product directly on substrates with a moisture content of more than 4% and/or with capillary rising damp (check by testing it with a sheet of polythene).
- The temperature of the substrate must be at least 3°C above the dew-point temperature.
- MMA resins are flammable liquids in their uncured state, which means that smoking, open flames, or sparks should not be allowed during the application.
- Always store and transport resin and hardener separately.

- Follow the national health and safety guidelines for air quality at the location and it is recommended to ensure effective ventilation to minimize vapor collection in the surroundings.
- Protect or remove all types of food or unpacked goods in the area to avoid potential risk of contamination since the application of MMA will lead to a characteristic odour and smell at the site.

APPLICATION PROCEDURE

Preparation of the substrate

The surface of concrete floors must be dry, clean, and sound and have no crumbling or detached areas. The compressive strength of the concrete used for the substrate must be at least 25 N/mm² and the pull off strength must be at least 1.5 N/mm². It must always be suitable for its intended use and the types of loads to which the floor will be subjected to. The level of moisture in the substrate must be a maximum of 4% and there must be no capillary rising damp (check by testing it with a sheet of polythene). The surface of the substrate must be mechanically prepared with suitable equipment (e.g., shot-blasting or grinding with a diamond disk), to remove all traces of dirt, cement laitance, paint, oil, form-release compounds, and any other undesired material from the surface. Do also remove crumbling or detached areas in the floor to make the surface slightly rough and absorbent. Before applying any material, remove all dust from the surface with an industrial vacuum cleaner.

To repair deteriorated areas and joints, fill large hollows and to create or slightly modify the slope in confined areas, use **Rescryn Mortar**.

Please contact our Technical Department for support if needed.

Preparation and mixing of the product

After preparing the surface as specified, **Rescryn P 100** must be carefully stirred prior to use to achieve a uniform distribution of the paraffin contained in the product.

Rescryn P 100 is thoroughly mixed with catalyst hardener **Rescryn H3** in accordance with the guidelines below. Use a low-speed explosion proof drill, equipped with a helical spinner, and use a clean metal pail at the mixing station. Pay attention that the required amount of **Rescryn H3** to be added in percent of the weight of **Rescryn P 100**, depends on the temperature.

Never dose the **Rescryn H3** below or above the recommended amounts indicated, as this will adversely affect the curing process.

At application temperatures below the minimum temperature in the table below, please consult your local technical service for advice.

Temperature	Hardener dosage	Pot-life	Hardening time for light traffic
+30°C	2% b.w.	Approx. 10 min.	Approx. 25 min.
+20°C	3% b.w.	Approx. 12 min.	Approx. 30 min.
+10°C	4% b.w.	Approx. 14 min.	Approx. 35 min.
0°C	5% b.w.	Approx. 15 min.	Approx. 40 min.
-10°C	7% b.w.	Approx. 22 min.	Approx. 60 min.

To convert in volume the quantity in grams of hardener use the following calculation:
 quantity in grams x 1.57 = volume in millilitres.

Application of the product

Rescryn P 100 should be used immediately after **Rescryn H3** has been stirred into the resin. **Rescryn P 100** is poured onto the substrate in stripes and distributed with a short pile roller.

Only mix the amounts which can be applied within the pot life, to ensure adequate penetration into the substrate. A notched rubber squeegee can be used for fast distribution of large quantities, but always roll over with a paint roller afterwards. Avoid leaving any puddles.

Apply at a rate of between 0.3 to 0.5 kg/m² depending on density, surface profile and porosity of the substrate. In any case continue applying the primer until saturation occurs to obtain a continuous resin film. On extremely porous substrates, a second primer coat may be required, applied wet-on-wet. When a continuous resin film is obtained, broadcast a light scatter of kiln-dried quartz sand (particle size 0.4-0.8 mm or 0.8-1.2 mm) into the still wet primer.

Before the application of any subsequent coat, the primer must have completed its curing.

CONSUMPTION

Rescryn P 100 (+ Rescryn H3)

~ 0.3 – 0.5 kg/m²

The consumption rates mentioned above are theoretical values only and are influenced by the actual conditions of the surfaces to be coated, such as absorbency and roughness, ambient conditions, type of site, etc.

CLEANING TOOLS

Tools and equipment must be cleaned immediately after use with acetone, thinner or other cleaning agents suited for MMA. Hardened product may only be removed mechanically.

PACKAGING

20 kg cans.
190 kg drums.

STORAGE

9 months if stored in a cool, dry place in original packaging. The optimal storage temperature is +15°C and +20 °C.
Always store and transport resin and hardener separately.
Keep out of direct sunlight.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the SDS available from our website www.mapei.com
PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Colour:	transparent, clear
Appearance:	thin liquid
Density:	~ 1.0 g/cm ³
Viscosity at +20°C:	60 – 80 mPa·s
Flash point (DIN 51755):	+10°C

APPLICATION DATA

Mixing ratio:	see application procedure
Pot life / Working time at +20°C:	approx. 12 minutes (3% dosage b.w. Rescryl H3)
Application temperature range:	from -10°C to +35°C
Curing time at +20°C:	approx. 30 minutes set to light foot traffic

FINAL PERFORMANCE

Essential characteristics	Test methods	Requirements according to EN 13813 for synthetic resin-based screeds	Typical values
Bond strength:	EN 13892-8:2004	> 1.5 N/mm ²	≥ 1.5 N/mm ²
Reaction to fire:	EN 13501-1	declared value	E _{FL}

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 website www.mapei.com

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.

The most up-to-date TDS can be downloaded from our website www.mapei.com.
ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

8977-11-2022 en (IT)

Any reproduction of texts, photos and illustrations published here is prohibited and subject to prosecution

