

SOLVENT FREE, HIGHLY CROSS - LINKED MULTI COMPONENT POLYURETHANE FLOORING SYSTEM

PURPOSE

- Monolithic topping to protect concrete against chemical/mechanical impact and to provide slip resistant flooring surface
- For Warehouses and Storage environments
- Ideal for interior and exterior sports wearing surfaces
- Ideal for structures adjacent and on seafronts subject to chloride and sulphates attack

PROPERTIES

- Good crack bridging properties
- Excellent adhesion and tenacious bond to correctly prepared surfaces
- 100% solid system, hygienic and seamless floors easily cleaned
- Corrosion barrier and excellent chemical defense against diluted acids, alkalis, salts, grease and oil
- Cost effective, fast and easy application

Design Criteria

Resifloor M is designed for application at nominal thickness of 2 - 4 mm. Substrate should not suffer from rising damp and should have a relative humidity less than 80% at time of application

Technical Support

RezCoat provides technical service from inception with consulting Engineering and specifying bodies to onsite technical support throughout Middles East.

TECHNICAL DATA

Color	:	Grey
Solid Content	:	100%
Specific Gravity	:	1.8 kg/liter
Tensile Strength (ASTM D4541-1: Concrete)	:	3MPA
Compressive Strength (BS 6319 Part 2)	:	70 MPA
Shore Hardness (ASTM D2240)	:	90-95 'A'
Initial Hardness @ 30°C	:	3 hours
Min. Overlay Time (Approx.)		
@30°C	:	2 hrs
@25°C	:	4 – 6 hrs
@20°C	:	16 hrs
Impermeability (Chloride and Oxygen ions)	:	Excellent
Pressure Resistance		
a. Positive Pressure	:	Excellent
b. Negative Pressure	:	10 Bars (102m Head)
Salt Spray Resistance	:	>200 hrs

Chemical Resistance

PH range (ph1 – 13)

- Excellent to most commonly used chemicals

Application Properties

Pot Life @30°C	:	25 mins
Full Cure @30°C	:	7 days

APPLICATION INSTRUCTION

Surface Preparation

All surfaces must be clean and free from oil, grease, water and other contaminants which may inhibit bond. Remove all standing water. For best result surfaces should be dry. Concrete on grade should incorporate an effective puncture free waterproof barrier beneath slab to prevent the effect of Osmosis.

New Concrete

New concrete should have attained a compressive strength of 28 MPA. Surface must be free from laitance, oil or curing compounds. The surface should have a fine wood float or broomed finish. Abrade or light sand blast the surface to remove laitance and provide uniform, texture surface.

Old Concrete

The concrete floor must be sound, free of laitance, old paints, protective coating or deteriorated concrete. Chemically clean surface to remove any contaminants. Carry out mechanical keying of the top surface by light abrasive blasting or water jetting. All wet activities should be allowed to dry out before the coating overlay. All structure cracks should be repaired with approved repair material.

All surfaces must be vacuumed to remove dust and loose deposits or contamination.

Priming

Good quality and well prepared concrete generally does not require a primer but for optimum coating on old or dry concrete (exposed to drying after curing for longer than 14 days), the surface should be prepared to receive one coat of **Resiprime Primer C111** concrete primer. Prior to application, mix the **Resiprime Primer C111** well to ensure dispersion of the solids until a homogeneous mixture is achieved.

For total coverage, the primer must be scrubbed well into the surface with a short bristled brush and worked further into the concrete surface with a stippling action

Prevent ponding; the primer must be left on the surface in excess of 2 hours for full absorption. Do not leave the primed surfaces uncoated for more than 16 hours, as re – priming of the surface will be essential.

Mixing and Application

Resifloor M is a multi – component product supplied in three (3) separate containers. Application procedure is as follows:

1. Take **Resifloor M Base (Part A)** as supplied in can and add 0.4 kg of **Additive Plasticizer (Part D)**. Mix **Part A & Part D** well to get a homogeneous mixture.
2. Add clean dry **sand** to the mixture with equal volume as **Part A**. Mix well until mixture is homogeneous.
3. Finally, add **Resifloor M Hardener (Part B)** as supplied, to the above mixture. Mix well to get homogeneous mixture.
4. Apply the material on floor by trowel and/or spike roller according to project thickness specification.

Packaging

Resifloor M	:	10.4kg/pack
Yield	:	5.8 liter/pack
Resiprime Primer C111	:	5 & 18ltr/can
Rezkem Solvent SC111	:	18 ltr/pail

HEALTH AND SAFETY

All products contain solvent or resin should not come in contact with skin, eyes or swallowed. People sensitive to resin and chemical should wear goggles and PVC gloves. Avoid contact with skin and eyes when handling the products.

Do not use solvent for skin remover of resin; instead a barrier cream remover must be used before it gets harden. Should accidental eye contamination occur, wash thoroughly with plenty of running water and seek medical advice. Ensure plenty of ventilation when using resin and solvent containing materials.

Storage

Product should be kept in original unopened containers away from direct source of heat in shaded area at a temperature below 30°C.

Resifloor M will have a shelf life in excess of 12 months. If stored at a lower temperature with high humidity, the pot life may be reduced by half the life.

Cleaning

Tools and equipment should be cleaned with **Rezkem Solvent SC111** cleaning solvent. Do not use the solvent for thinning, as it will inhibit the materials properties.

Fire

Resifloor M is a non –flammable products.

Resiprime Primer C111 & Rezkem Solvent SC111 are flammable materials, avoid formation of flames and sparks near the product.

In the event of fire, use CO₂ or foam extinguisher. Do not use water.

DISCLAIMER

This product is specially formulated and manufactured by Rezayat Protection Coatings Company Ltd (Rezcoat) and sold subject to its standard terms and conditions. The information presented herein is accurate to the best of our knowledge. All technical properties quoted forthwith are from laboratory prepared samples and RPCCL reserve the right to alter any of the detail herewith without notice. The users are advised to ensure they possess the latest issue of the datasheet. The information given must not be taken in any way to form a specification. RPCCL will not accept any liability for any consequent or incidental damage arising out of use of the product. All guarantees offered are limited to replacement of defective material only. The use of the products outside of RPCCL recommendation is under user own risk.

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