Technical Data & Instruction Sheet

PRODUCT BENEFITS

- High strength, heavy duty screed
- Good abrasion and impact resistance
- High durability and chemically resistant
- Good anti-skid properties

MIXING RATIO

A:B:C :: 5:2.5:20.50

PACK SIZE

Part A (Resin): 5kg
Part B (Hardener): 2.50kg
Part C (Aggregate): 20.50kg

COVERAGE

3.2 Kgs/ Sq. mtr. for 2 mm

TECHNICAL INFORMATION

Pot Life: >40 min

Shelf Life: At least 2 year, if stored in a cool and dry place in original container

MECHANICAL PROPERTIES

Compressive strength: N/mm^2 BS6319-2	>75
Tensile strength: N/mm^2 BS 6319-7	>20
Flexural strength: N/mm^2	> 40

PRODUCT DESCRIPTION

RachTR EP81 is three components, self levelling heavy duty industrial flooring screed.

APPLICATION CONDITIONS

Residual moisture content of the concrete substrate should not exceed 5%

No rising moisture & potential osmosis problems

Substrate temperature should be at least 3°C above dew point but not above 50°C

Recommended ambient temperature for application is between 10°C - 40°C

Relative Air Humidity (RH) to not exceed beyond 80%

Only epoxy based colorant recommended for clear composition

APPLICATION GUIDELINES

Substrate Quality

Concrete substrates must be sound and of sufficient compressive strength (minimum 20 Mpa) with a minimum tensile strength of 1.5 Mpa

A sound, clean and dry substrate is absolutely essential to ensure optimum bonding between the substrate and the coating system

The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. The moisture content should be less than 5% prior to application of the primer. Ensure that the substrate does not suffer from rising moisture and potential

Surface Preparation

New concrete floors

Should be at least 28 days old or have a moisture content of less than 5% before proceeding with epoxy primer application

Old concrete floors:

Determine the general condition, soundness, presence of contaminants, and presence of moisture vapor emissions. Mechanical surface profiling by grit or shot blasting, grinding or scarifying should be done for floor preparation of old concrete floors

Remove localized weak or deteriorated materials from the surface. Remove bond-inhibiting materials such as oils, grease, wax, fatty acids, and other contaminants. Clean with detergent scrubbing, low pressure water cleaning, steam cleaning, or chemical cleaning. Acids and alkalis can be removed by neutralizing to form a water soluble salt and then high pressure water cleaning and mopping it off to

Floor Joints

All cracks and construction joints present, should be filled either with epoxy putty or mortar after primer application

The expansion joints should not be coated with the coating and are to be treated with suitable products

Primer Application

Surface should be primed with RachTR EP 101. The primer should be applied to the prepared substrate using stiff brushes and/or rollers.

Allow the primer to dry for min 24 hours; do not proceed whilst the primer is 'tacky'.

Freshly applied primer should be protected from damp, condensation and water for at least 24 hours

Mixing

RachTR EP 81 flooring is supplied in 3 pre-weighed packs (Resin, Hardener and Aggregate) which are ready for immediate on-site use.

A suitable power driven mixer such as a bucket mixer is

Application

The product may be applied by a serrated/ notch trowel to the required thickness.

The entire mixed material should be poured onto the primed surface and spread slowly and evenly.

To ensure proper levelling and appearance avoid overspreading.

Tamp the laid material with a wooden float to ensure compactness. Finish the surface with a suitable steel trowel

An overlap of 50% with adjacent paths is recommended.

To avoid roller marks prevent over rolling of the coating

The coverage & levelling would vary significantly based on the nature & levelling of the concrete surface

Freshly applied material should be protected from damp, condensation and water for at least 24 hours

At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, open time & curing times.

High temperatures speed up the chemical reactions thus the time frames mentioned above are shortened accordingly

SAFETY MEASURES

Use gloves, goggles & respirators while applying.

STORAGE AND HANDLING INSTRUCTIONS

May be harmful if swallowed.
May cause skin, eye and respiratory irritation.
Do not spray.
Avoid prolong exposure to vapors.
Use in a well ventilated area.
Do not ingest. Keep out of the reach of the children.
Do not freeze or store above 40^0 C.
Do not mix with other chemicals

EMERGENCY/ FIRST AID PROCEDURES

Ingestion: Do not induce vomiting. Call a physician

Eye Contact: Flush thoroughly with water for at least 15 minutes. Remove contact lenses, if applicable, and continue flushing. Call a physician if eye irritation persists

Skin Contact: Wash skin with mild soap and water. Call a physician if skin irritation persists. Wash clothes before wearing again

Inhalation: Remove to fresh air. Call a physician if respiratory irritation persists