



# FLORGIENE RD

## 6-10mm POLYURETHANE CONCRETE FLOORING

### Product Description

**FLORGIENE RD** is a four component, single layer, seamless, solvent free polyurethane resin based floor finish. It has a textured matt finish possessing a wide spectrum of chemical resistance; withstand abrasive wear; has high impact resistance and withstand direct steam impact.

### Green Building Compliance

This product has following distinct advantages

- Eco-friendly
- Low VOC
- Water based with a high level of mechanical, chemical and water resistance.
- Low odour
- Antimicrobial
- Low maintenance
- Easier cleanability
- LEED compliant
- Ideal for use in Green Building

### Features

- Suitable for hot water and steam cleaning
- Short curing time
- Hygienic and safe
- High chemicals resistance
- Excellent wear and impact resistance
- Slip resistance
- Non – dusting
- Seamless
- Fast return to service – Can be laid on a 7 days old concrete with FLORPRIME DPM primer.

### Uses

**FLORGIENE RD** is recommended for conditions requiring the maximum chemical resistance and where even and easy to clean surface is required.

Specific applications include:

- Meat, fish and poultry processing
- Food and beverage production
- Warehousing and cold storage
- Dairies ,cheese and milk products
- Pharmaceutical production
- Chemical plants
- Cold storage areas

### Properties

Pot Life @ 25°C	: 15 mins
Compressive strength (ASTM C 579)	: > 60 MPa
Flexural strength (ASTM C 580)	: >15 MPa
Tensile strength (ASTM C 307)	: >8 MPa
Bond strength to concrete (ASTM D 4541)	: (Elcomete pull of test) Exceeds Tensile strength of concrete
Hardness, Shore D (ASTM D 2240)	: 90
Slip resistance	: Classified 'Satisfactory' Under BS 8204 Part 2: 2002(9), Wet and dry
Impact resistance	: Classified 'High Impact Resistance' Under BS 8204: Part 1: 1999
Temperature resistance	: Tolerant from -40°C upto 150°C
Permeability (water absorption)	: 0 ml
Mixing ratio	: As supplied

The values given above are average figures achieved in laboratory tests. Actual values obtained on site may show minor variations from those quoted.

### Consumption / Coverage

**FLORGIENE RD** : Approximate 2 kg/mm/sqm

### Directions for use

A sound, clean and dry substrate is absolutely essential for successful floor coating application and in ensuring maximum bonding between the substrate and coating system. New concrete surface must be a minimum of 28 days old, free from curing compounds and sealers and have a moisture content less than 5 % prior to application of the primer.

**Concrete or screed substrate should be a minimum of 25 N/mm<sup>2</sup>, free from laitance, dust and other contamination. The substrate should be dry to 75% RH as per B28204 and free from rising damp and ground water pressure.**

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### Inspection and Surface preparation

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Determine the general condition, soundness, and presence of contaminants, presence of moisture vapour emissions, and the best methods to prepare the concrete surface to receive F/C system. (Hydrophobic contaminants can be identified by a simple water drop test. Other contaminants can be identified by pH).

Remove localized weak or deteriorated concrete and replace by sound concrete and structural repair materials.

Remove bond-inhibiting materials such as oils, grease, wax, fatty acids, and other contaminants. (This can be accomplished by the use of detergent scrubbing, low pressure water cleaning (less than 5000 psi), 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).

In the areas where the contaminants cannot be removed, complete removal and replacement of the contaminated concrete is typically considered.

Concrete defects such as voids, bug holes, excess porosity, and physical and chemical damage are usually filled or repaired prior to the installation of the F/C system. (Materials such as slurries, mortars, and polymer concrete are used to level, smooth and patch concrete surfaces).

The laitance (A thin, weak, brittle layer of cement and aggregate on concrete surface) on in-situ bases and any surface sealer or curing membrane should be entirely removed by suitable mechanised equipment, e.g. shot-blasting, panning or grinding, to expose cleanly the coarse aggregate.

**Old Concrete surfaces:** All surface contamination, e.g. oil, paint and rubber, should be removed and adequate mechanical preparation carried out to achieve a sound and stable surface with exposed coarse aggregate. (Existing floor paints should be removed by mechanical abrasion or contained shot blasting. When clear of all surface contamination, the concrete should be prepared mechanically to remove all laitance and expose a fresh surface).

After surface preparation all loose debris and dirt should be removed by vacuum- equipment.

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### Priming:

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Use suitable primer depending on substrate condition to ensure maximum product performance.

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### Laying of FLORGIENE-RD

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**FLORGIENE-RD** shall be mixed and applied only by specialist flooring contractors who have been trained in the correct application procedures. Detailed method of statement is available on request.

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### Packaging

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**FLORGIENE RD** is available in 29 kg pack size.

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### Shelf life

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**FLORGIENE RD** has a shelf life of 6 months if kept in warehouse conditions at 30°C in the original, unopened pack.

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### Storage conditions

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Store in dry conditions between 5°C and 30°C, away from sources of heat and naked flames, in the original, unopened packs. If stored at high temperatures the shelf life will be reduced

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### Curing

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At 30°C, foot traffic access in 12 hours, vehicular traffic in 24 hours. At 20°C, foot traffic access in 12 hours, vehicular traffic in 48 hours. Full cure at 28 days.

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### Colours

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**FLORGIENE RD** is available in Apurva's standard colours: Green, Grey, Red, Blue and Yellow.

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### Limitations

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**FLORGIENE RD** is not colour fast and may change colour over time (exhibits a yellowing effect). Colour change depends on the UV light and heat levels present and hence the rate of change cannot be predicted. This is more noticeable in light colours and blues but does not compromise the product's flexibility or chemical resistance characteristics. We have endeavored to adopt colours within our standard range which minimize this change.

Variation in surface finish with respect to gloss/matt may occur on installation which will disappear on usage over a period of time.

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#### Handling & Safety

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**Keep the containers tightly sealed when not in use. Avoid skin contact and inhalation of fumes (if any). While spraying it is advised to wear a mask. If it comes in contact with the body, wash affected parts with plenty of water. In case of persistent irritation, contact a physician.**

**Disclaimer:** *The manufacturer reserves the right to change the specifications. Apurva India Private Limited products are guaranteed against material manufactured and are sold subject to the company's Terms and Conditions of Sale. Whilst we endeavour to ensure that advice, specifications, recommendations and information given is correct, we cannot have control over how our products are applied and will not accept liability, directly or indirectly, arising from application of our materials.*

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