

Isocrete RS

Product sheet

Product Description

Isocrete RS is a multipurpose, single-component, rapid strength gaining repair mortar for horizontal and vertical repair projects. Requiring only the addition of water, **Isocrete RS** is a low-shrinkage, high early strength material that is easy to use for fast turn-around projects.

Isocrete RS is similar in appearance to concrete and is suitable for use in repairing concrete surfaces from featheredge to 100 mm in thickness.

Primary Applications

- Multi-unit residential
- Loading docks
- Warehouses
- Pavements
- Parking decks and ramps
- Industrial /commercial / institutional floors

Features / Benefits

- Rapid strength gain
- Suitable for interior or exterior applications
- Open to light duty traffic as soon as 2 hours
- Can be coated with a moisture tolerant product after 5 hours (20° C / 50% RH)
- Micro-fibre reinforced
- Shrinkage compensated
- Multipurpose for both high build and flowing applications
- Polishable at 24hrs
- Can be integrally coloured

Packaging

Isocrete RS is packaged in 25 kg bags.

Yield: 0.013m³ per bag when mixed with 3.5 L of water.

Technical Information

Performance tests	Result	
Mixing water	3.25 – 4.25 Litres	
Set Time (mins)	Initial	20
	Final	35
Compressive strength (N/mm ²)	1 hr.	10
	2 hr.	20
	1 day	40
	7 day	55
	28 day	60
Fresh Wet Density (Kg/m ³)		2200

Directions for Use

Surface Preparation: Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and free of dust, dirt, paint, efflorescence, oil and all other contaminants. Ensure a properly clean profiled area.

Priming: Soak the repair area with potable water to achieve a saturated-surface dry (SSD) condition. The SSD concrete must be primed with a scrub coat of **Isocrete RS**. The repair must be made before the **Isocrete RS** scrub coat dries out.

Mixing: Single bags may be mixed with a drill and mixing paddle. Use a horizontal shaft mortar mixer for larger jobs. Add the appropriate amount of water for the batch size and then add the **Isocrete RS**. Initially add 3.25 – 4.25 Litres (depending on workability required) of water per 25 kg bag and mix for 3 minutes. If using an integral colourant like **Thin-crete colour pack**, add the colour to water prior to the addition of **Isocrete RS**.

Placement: Important-The application temperature range of **Isocrete RS** is from 5° to 35°C. Allow approximately 15 minutes to mix, place, and finish **Isocrete RS** repair mortar at 20°C. To make repairs, spread with a float or square tipped shovel to a thickness that is level with the surrounding concrete.

Finishing: Finish the repair material to the desired texture. Do not add water to the surface during the finishing operation.

Curing & Sealing: Wet cure the surface with water and polyethylene sheets for at least one day, or use a curing compound (Kureseal). If applying an epoxy coating, **Isocrete RS** can be mechanically abraded and coated with a moisture tolerant product (e.g. Flowfresh HF) after 5 hours at 20° C / 50% RH.

Clean Up

Clean tools and equipment with water before the material hardens

Precautions / Limitations

- The application temperature range is 5 to 35°C.
- If an epoxy coating will be applied, follow surface preparation procedures as directed by the coating manufacturer.
- In all cases, consult the Safety Data Sheet before use.

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