



VERSASPEED M

SELF - LEVELING HARDENING HORIZONTAL REPAIR MORTAR WITH EXTENDED WORKING TIME

EUCLID CHEMICAL

HORIZONTAL REPAIR

DESCRIPTION

VERSASPEED M is a versatile, single-component, self - leveling rapid strength gaining repair mortar for horizontal, and form and pour repair projects. Requiring only the addition of water, **VERSASPEED M** a low-shrinkage, high early strength material that is easy to use for fast turn-around projects. Repaired areas may be open to standard tire traffic after 5 hours following the final set. **VERSASPEED M** is similar in appearance to concrete and is suitable for use in repairing concrete surfaces from approximately 4 mm to 15 mm in thickness. **VERSASPEED M** is a slower setting version of our popular **VERSASPEED** material.

PRIMARY APPLICATIONS

- Multi-unit residential
- Bridges
- Loading docks
- Highways
- Warehouses
- Pavements
- Roads
- Parking decks and ramps
- Industrial / commercial / institutional floors
- Vertical/Overhead form and pour applications

FEATURES / BENEFITS

- Rapid strength gain with extended working time
- Suitable for interior or exterior applications
- Open to light duty traffic as soon as 8 hours
- Can be over-coated after 5 hours at 21° C
- Micro-fibre reinforced
- Shrinkage compensated and reduced
- Can be placed up to 15 mm neat
- Can be extended up to 50% by weight

TECHNICAL INFORMATION

The following results were developed under laboratory conditions @ 23°C:

| PROPERTY | VALUES |
|---|---|
| Compressive Strength ASTM C109 | 1 day 15.0 MPa 7 days 30.0 MPa 28 days 45.0 MPa |
| Flexural Strength ASTM C348 | 7 days 5.0 MPa 28 days 7.0 MPa |
| Splitting Tensile Strength ASTM C496 | 7 days 1.0 MPa 28 days 1.5 MPa |
| Crack Resistance ASTM C1581 | Net Time Until Cracking >90 days |
| Set Time ASTM C266 | Initial set 120 mins Final set 240 mins |

VERSASPEED M

MASTER FORMAT #:
03 01 30.71

PACKAGING/YIELD

VERSASPEED M is packaged in 25 kg bags. **Yield:** 0.016m³ per bag when mixed with 6.0 L of water.

SHELF LIFE

1 year in original, unopened package.

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. Properly clean the profiled area.

Saw Cut & Chipped Out Repairs, Form & Pour Repairs: Thoroughly clean any exposed reinforcing steel, and apply **Eucopatch P** to the concrete and the reinforcing steel within the repair area. Refer to the **Eucopatch P** Technical Data Sheet for full instructions. Alternatively, application of a scrub coat of **VERSASPEED M** to the saturated surface dry (SSD) concrete surface may be used for bonding. The repair material must be placed on the scrub coat before the scrub coat dries out.

Priming & Bonding (Horizontal Toppings): For the best adhesion to concrete, use **Flex-Con** as the bonding coat. Refer to the technical data sheet for full instructions. Alternatively, application of a scrub coat of **VERSASPEED M** to the saturated surface dry (SSD) concrete surface may be used for bonding. The topping material must be placed on the scrub coat before the 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. All materials should be in the proper temperature range of 15°C to 30°C. Add the appropriate amount of water for the batch size and then add the **VERSASPEED M**. The amount of water to be mixed with the **VERSASPEED M** is critical. Initially add 6.0L of water per 25 kg bag/pail and mix for 2 minutes. If after the initial 2 minutes of mixing the desired flow is not obtained, no more than 200 mL of additional water should be added to the mix in order to achieve more flow. Mix an additional 2 minutes after adding extra water.

Placement: Important-The application temperature range of **VERSASPEED M** is from 7° to 35°C. Allow approximately 30 minutes to mix, place, and finish **VERSASPEED M** repair mortar at 30°C. To make repairs, spread with a float, come-a-long, or square tipped shovel to a thickness that is level with the surrounding concrete. Do not use **VERSASPEED M** for repairs less than 4 mm deep.

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

Curing & Sealing: If an epoxy coating will not be applied, wet cure the surface with water and polyethylene sheets at least one day, or use a curing compound. If applying an epoxy coating, it is important to wet cure with polyethylene sheets for at least 3 hours and then allow to air dry for 2 hours before coating. **VERSASPEED M** can be coated with epoxy systems after 5 hours at 21° C.

CLEAN UP

Clean tools and equipment with water before the material hardens.

PRECAUTIONS / LIMITATIONS

- The application temperature range of **VERSASPEED M** is 7° 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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