TECHNICAL DATA SHEET

RepCon® H-350

Single-Component Polymer-Modified Concrete Repair Mortar with Corrosion Inhibitor

DESCRIPTION

RepCon® H-350 is a single-component, polymer-modified, fiber-reinforced concrete repair mortar with integral corrosion inhibitor for a variety of screed, trowel-down or form-and-pour repair applications. RepCon® H-350 incorporates the latest in polymer technology, offering superior durability, performance and ease of application in industrial, commercial and infrastructure applications.

BENEFITS

- One-component, dry-polymer modified; just add water
- Fiber-reinforced for added strength
- Dry-polymer technology for excellent freeze-thaw durability, with integral corrosion inhibitor
- Easy-to-apply flowable consistency
- Natural concrete-gray color
- Can be used for a variety of horizontal concrete repairs and form-and-pour applications
- Takes foot traffic in 4–6 hours

APPLICATION

Surface Preparation: The concrete must be sound and free of all foreign material, including oil, grease, dust, laitance and other surface contaminants. For maximum durability, saw cut the perimeter of the repair 1/8" (3 mm) deeper than the depth of the repair, creating a notched, reinforced edge. Mechanically abrade the surface by an engineer-approved method in accordance with ICRI Guideline 310.2 to a minimum CSP 5. All surfaces to be repaired must be saturated surface-damp (SSD) with no standing water.

Priming/Scrub Coat: Thoroughly clean all exposed reinforcing steel of rust and coat with SpecPrep SB. Prepared concrete must be SSD and primed with a spray or brush coat of SpecPrep SB, with the repair mortar applied wet-on-wet or within the recommended open time (see the SpecPrep SB technical data sheet). Alternatively, apply a scrub coat of properly mixed repair mortar by scrubbing a thin layer into the pre-dampened substrate with a stiff brush, and place the repair mortar immediately, before the bond coat dries.

Mixing: Mix 4.5–5.0 pints (2.1–2.4 L) of clean water (depending on desired consistency) per 50 lb (22.7 kg) bag, using a low-speed drill. Add the water to the container first, then slowly add the RepCon® H-350 powder. Mix 2–3 minutes. Mix only what can be applied within the setting period.

RepCon® H-350 can be applied from 1/4" to 2" (6–51 mm) per lift.

Deep Applications: For repairs over 2" (51 mm), extend RepCon® H-350 with clean, SSD, well-graded 3/8" (10 mm) aggregate free of organic material, up to 50% by weight (25 lb / 11.3 kg), and mix an additional 2 minutes. Pre-dampen the aggregate before mixing and reduce the total mixing water by the amount of free water in the aggregate. This extension adds approximately 0.15 cu ft (4.2 L) to the unit yield and should be placed within 15–20 minutes.

Placement: Trowel or screed RepCon® H-350 firmly into the prepared area, ensuring intimate contact with the bonding surface. Finish level with the surrounding concrete and allow to take an initial set. After the initial set, when RepCon® H-350 is surface-hard, finish by hand troweling.

Finishing/Curing: Finish the repair to the desired texture to best match the surrounding concrete. Do not add water to the surface during finishing. Lightly

spray SpecChem SpecFilm as a finishing aid on this and any other polymer-modified mortar. RepCon® H-350 is self-curing under most conditions. In severe drying conditions, use an ASTM C309-compliant, water-based SpecChem curing compound.

TECHNICAL DATA INFORMATION

Set Time at 70 °F (ASTM C266)

Initial set ..... 60 min

Final set..... 90 min

Age	Compressive (C109)	Bond (C882 mod.)	Flexural (C348)
1 day	2,845 (19.6)	–	–
7 days	6,600 (45.5)	1,765 (12.2)	650 (4.5)
28 days	9,825 (67.7)	–	1,200 (8.3)

Values in psi (MPa).

Other Properties

Length change (C157), wet/water cured, 28 days ..... +0.01%

Length change (C157), air cured, 28 days ..... −0.04%

Yield per 50 lb (22.7 kg) unit ..... 0.43 cu ft (12.2 L)

COMPLIANCE/STANDARDS

- ASTM C928 (Rapid-Hardening Mortar)

PACKAGING

50 lb (22.7 kg) bag

Coverage: approximately 20 sq ft at 1/4" (1.9 m^2 at 6 mm).

CLEANING

Tools and equipment may be cleaned with water before RepCon® H-350 hardens.

SHELF LIFE

Shelf life of unopened bags stored in a dry facility is 12 months. Excessive temperature differential and/or high humidity can shorten the shelf life. Store in a cool, dry area away from direct sunlight.

LIMITATIONS

Minimum thickness for horizontal repairs subject to heavy or severe traffic is 1/2" (13 mm). Do not retemper after initial mixing. Do not add other cements or additives. RepCon® H-350 is fast setting, so clean mixing equipment with water as soon as possible. Use only potable water for mixing.

Do not allow repairs to freeze until the material has reached a minimum compressive strength of 1,000 psi (6.9 MPa). A minimum surface and ambient temperature of 45 °F (7 °C) and rising is required at the time of application. In adverse temperatures, follow ACI recommendations for hot/cold weather concreting. For optimum results, condition material to 65–85 °F (18–29 °C).

Caution: Contains portland cement and sand. Cement will cause irritation. Avoid contact. A dust respirator, safety goggles and rubber gloves are recommended. Avoid prolonged contact with clothing. In case of contact with eyes, immediately flush with water for at least 15 minutes and get prompt medical attention. Do not wear contact lenses when working with this product. DO NOT take internally. Keep out of reach of children.

Avoid hazards by following all precautions found in the Safety Data Sheet (SDS), product labels and technical literature. Please read this information prior to using the product.

WARRANTY

NOTICE – READ CAREFULLY

CONDITIONS OF SALE

SpecChem offers this product for sale subject to and limited by the warranty which may only be varied by written agreement of a duly authorized corporate officer of SpecChem. No other representative of or for SpecChem is authorized to grant any warranty or to waive limitation of liability set forth below.

WARRANTY LIMITATION

SpecChem warrants this product to be free of manufacturing defects. If the product when purchased

was defective and was within use period indicated on container or carton, when used, SpecChem will replace the defective product with new product without charge to the purchaser. SpecChem makes no other warranty, either expressed or implied, concerning this product. There is no warranty of merchantability. NO CLAIM OF ANY KIND SHALL BE GREATER THAN THE PURCHASE PRICE OF THE PRODUCT IN RESPECT OF WHICH DAMAGES ARE CLAIMED.

INHERENT RISK

Purchaser assumes all risk associated with the use or application of the product.

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