

Deco Repair HB

Fast Setting Repair Mortar

DESCRIPTION:

Deco repair HB is fast-setting, non-sag, Cement-based repair mortar for small repairs on vertical, horizontal, and overhead surfaces for concrete and masonry substrates.

ADVANTAGES:

- Fast setting Can be painted or coated over faster than normal concrete
- Long-lasting repairs Extends life of the structure
- Withstands freeze/thaw cycles and Suitable for all climates temperature extremes
- One component Easy to mix; enhances quality control
- Can be mixed with Deco Bond for improved properties

USES:

- Deteriorated or uneven cast-in-place or precast, and steel-reinforced concrete
- Filling and leveling honeycombs
- Form tie-wire holes, small spalls, surface Irregularities, and other surface defects
- Interior or exterior
- Above or below grade

SURFACE PREPARATION:

Area to be repaired must be clean, structurally sound, and free of all loose, dirty, oily, and scaly material or any material that may affect proper bonding.

Repair area should have saw cut straight edges at a minimum depth of 1/4" (6 mm).

Clean all reinforcing steel to a white-metal finish.

For maximum bond, apply Deco Bond to smooth, dense or non-porous substrates prior to applying Deco repair HB. Dampen the substrate NOT coated with Deco Bond with potable water prior to applying Deco repair HB.

MIXING:

1. Product can be mixed with water only, or with water and Deco Bond mixtures to enhance its properties. Prepare a mixture of 1 part Deco Bond to 3 parts water.
2. Mix only enough material that can be placed within 10 – 15 minutes.

3. Add (3 L) of water to a clean container. Gradually add powder while mixing at low speed to obtain a uniform, lump free consistency. Mechanically mix with slow-speed drill and mixing paddle at 400 – 600 rpm.

4. Mix for 2 – 3 minutes. Do not over mix. Add up to (0.7 L) of water only if needed for workability. Do not exceed (3.7 L) of liquid per (30 kg) bag

APPLICATION:

1. Pre-wet the substrate to a saturated surface-dry condition. Some substrates may require extended and even overnight soaking. Remove any pending water from the surface before placing the scrub coat.

2. As a scrub coat, apply the fresh mortar by brush to the properly prepared, pre-wetted substrate, vigorously scrubbing it into the exposed surface. Do not allow scrub coat to dry prior to placement of the trowel mix. If the scrub coat dries out before the wet mortar can be placed, it must be removed as if it were laitance.

3. Immediately trowel apply fresh mortar to the wet brush coat using firm trowel pressure. Completely fill all voids around steel reinforcement.

4. Maximum single lift recommendation is (25 mm) on vertical surfaces and (13 mm) overhead. Minimum placement depth is (3 mm).

5. As Deco repair HB hardens, score material between layers to improve adhesion. After initial set, apply second layer, building out the patch above the final profile required. Shave back the patch, working from the center towards the perimeter to achieve the final profile before the patch fully hardens.

6. Use a wet sponge float for final shaping once the surface cannot be marred. Finishing with a straight edge may be required.

CURING:

In normal conditions, keep patch moist by water mist or fog spray until final set. Refer to ACI 308 Practices for Curing Concrete. In hot, dry, windy conditions longer periods of moist curing may be necessary, or use an ASTM C 309 compliant curing compound.

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Fast Sitting Repair Mortar

TECHNICAL DATA:

Initial set	: min 10 – 15 ASTM C 807, modified
Final set	min 20 – 30 ASTM C 807, modified
Density	(g/cm ³) ASTM C 138 Wet (2.05 – 2.12) Cured (2.00–2.10) Lab Method
Compressive strength	MPa, ASTM C 109 7 days 28 28 days 34
Flexural strength	(MPa) ASTM C 348 7 days (4.7) 28 days (6.9)
Tensile strength	(MPa) ASTM C 190 7 days (4.06) 28 days (5.81)
Modulus of elasticity	(MPa) ASTM C 469 28 days (1.5 x 10 ⁴)
Freeze/thaw resistance	% 4.5 ASTM C 666, Method A Weight loss at 300 cycles
Scaling resistance	1 ASTM C 672 Rating after 50 cycles
Water-vapor transmission	Perms 18.6 ASTM E 96
Coefficient of thermal expansion	2.77 x 10 ⁻⁶ ASTM C 531 linear, in/in/° F
Surface burning characteristics	ASTM E 84; Smoke 5 Flame spread 0 Rating Class 1
POT LIFE	2.5 hours at 22°C and 50%RH Setting time: 24 hours at 22°C and 50%RH.

PACKAGING:

30kg double layer plastic bags

COVERAGE:

0.016m³/bag

Yields are approximate, depending on job site conditions.

SHELF LIFE:

1 year when properly stored in a cool, clean, dry area.

LIMITATIONS:

- Do not apply to frozen or frost-covered substrates or when surface and air temperatures are below (4° C) or expected to fall below (4° C) within 24 hours after application.
- Over-mixing can reduce density, strength, and durability.
- Do not apply over dynamic cracks, control joints, or expansion joints.
- This product is not designed for large placements.

HEALTH & SAFETY:

Use facemask or respirator. Do not allow getting into eyes. Keep out of the reach of children. Prolonged breathing will cause throat and lung irritation. Protect all adjacent areas

SERVICES:

For further information on this product together with advice on application, please contact the Technical Advisory Department.

WARRANTY (DISCLAIMER):

Decorete® fully warrants their products when used and applied in strict accordance with the printed instructions on product mixing and product application. In any case Decorete®'s responsibility shall not exceed either the refund of the purchase

KEEP OUT OF REACH OF CHILDREN