



SCB PATCH

HIGH STRENGTH REPAIR MORTAR

PRODUCT :

SCB PATCH consists of accurately weighed Portland cement, fine aggregate, silica fume and admixtures. The mortar will be fast setting and have high strength and little or no plastic shrinkage. An air-entraining agent is included in this product to give improved resistance to freezing and thawing. Typical uses include vertical and overhead applications to bridges, piers, beams, tunnels, parking structures, water and sewage treatment facilities, pulp and paper process areas, petrochemical process areas, dams and marine structures.

APPLICATION :

SCB PATCH is designed for uses such as the following :

1. To repair honeycombing, rock pockets, chips spalls and accidental damage in concrete structures.
2. To plug from tie holes and service conduit holes in concrete and masonry.
3. To point joint in masonry, concrete pipe or precast concrete units.
4. To anchor ports, signs, railings and other fixtures in concrete or masonry.
5. To dry pack under base plates. Columns and sole plates and for underpinning of walls.

CAUTIONS :

1. **SCB PATCH** is intended for use in a dry pack or stiff plastic consistency in thickness of up to 75 mm. (3 inches). Where pourable material is required consult technical services.
2. Do not apply **SCB PATCH** when the surface temperature of the area to repaired is less than 5°C (41°F).

PROCEDURES :

1. Prepare the repair areas by chipping, saw-cutting, sandblasting or other means that will ensure that deleterious materials are removed from the repair area. It is always preferable to have a 10 mm. (0.4in) minimum vertical edge where contact between new and old concrete occurs. Feather edging is generally not recommended, except when HITEK (Bonding Agent) is included in the mix.
2. Remove any dust or loose material from the area to be patched or filled. The surface should be thoroughly saturated with water and maintained wet for at least one hour before filling operations begin. Remove all free surface water prior to filling.
3. Empty **SCB PATCH** into a clean wheel-barrow, pail or mixer and add clean water. Mix thoroughly until a stiff plastic consistency is achieved. (Certain applications may require a dry pack consistency). The temperature of the mix should be 10°C to 24°C (50°F to 75°F).
4. Mix only as much material as can be used within 30 minutes after the addition of mixing liquid.
5. Place the repair mix in the prepared area and firmly consolidate. Strike off level with a trowel or float and wait approximately 10 to 15 minutes before applying the final finish.
6. Adequate curing is extremely important. As soon as the concrete has hardened, maintain the patch in a continuously damp condition for not less than 24 hours by water spray, ponding, wet burlap or plastic, or use curing compound. Protect from temperatures below 5°C (41°F) or above 35°C (95°F) for at least 72 hours after placing.

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TYPICAL PROPERTIES :

(at stiff plastic consistency)

Compressive strength, ASTM C109

1 days 11 MPa (1,600 psi)

7 days 40 MPa (5,800 psi)

28 days 47 MPa (6,900 psi)

Tensile strength, ASTM C-190

7 days 5.0 MPa (730 psi)

28 days 6.2 MPa (900 psi)

PHYSICAL DATA :

Aggregate State : Powder

Color : Cement Grey

Bulk Density : 1.81 kg/l

Pot Life : 30 minutes

Setting Final : Approx. 2 hrs.

Potable Water : Approved

CURING :

Provide protection against extreme weather conditions during the setting period.

YIELD :

All above values are approximate depending on surface conditions honeycombs.

* patching approx. 0.014 m³/bag.