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CEMENTAID
The Way to Better Concrete



HIGH EARLY STRENGTH, FAST SETTING, NON-SHRINK, CRACK RESISTING, WATERPROOF AND CORROSION RESISTANT ADMIXTURE FOR PATCHING GROUT/ MORTAR/ CONCRETE

SPECIFICATION FOR

CALPATCH***RWC.HS**



High Early Strength, Fast Setting, Non-shrink, Crack Resisting, Waterproof & Corrosion Resistant admixture for patching grout/mortar/concrete. CALPATCH *RWC.HS(1 day >24 MPa & 2 days >32 MPa) is composed of 5 components: Part A - 4 kg, Part B - 0.45 kg, Part C - 4.0 liters, Part D - 5.5 lt and Part E - 2.04 lt.

FUNCTION & BENEFIT:

CALPATCH*RWC.HS is a high-grade grout, mortar and concrete admixture, suitable for repair of concrete pavement, slab, beam, column, pile cap, pile and wall structures. CALPATCH *RWC.HS is suitable for repair of concrete structures exposed to seawater and acids such as bridges, container yards, wharfs, piers, jetties as well as warehouse floor & production floor exposed to acids and other aggressive chemicals (i.e. chemical, fertilizer, sour & salty food/beverages, etc.). CALPATCH*RWC.HS can also be used as a fast-setting grout admixture in repairing equipment foundation exposed to acids such as filling the gaps between concrete pedestal and equipment base plate. CALPATCH*RWC.HS grout/mortar/concrete can achieve a compressive strength of more than 20 MPa in 1 day, more than 30 MPa in 2 days and more than 60 MPa in 28 days when using type I cement, sand and gravel or in 3 days, 5 days and 30 days consecutively when using type I cement and sand only. 7 days Water absorption when tested according to BS 1881: Part 122:1983 should not be greater than 1.0%.

CALPATCH *RWC.HS MIX PROPORTION:

A. When thickness is up to 2.5 cm (minimum 1.5 cm);
36 kg type I cement : 96 kg (+/- 78.4 liter) clean sand (clay < 5%) :
Part A - 4 kg : Part B - 0.45 kg : Part C - 4.0 liters : (+/-) 1.0 lt water
: Part D - 5.5 lt : Part E - 2.04 lt

B. When thickness > 2.5 cm;
36 kg type I cement : 48 kg (+/- 39.2 liters) clean sand (clay < 5%) :
48 kg (+/- 37.6 liters) 5 mm clean gravel : Part A - 4 kg : Part B -
0.45 kg : Part C - 4.0 liters : (+/-) 0.50 lt water : Part D - 5.5 lt : Part
E - 2.04 lt

Procedure:

- * Cut the damage concrete surface to form a rectangular shape at a maximum depth of 2.5 cm. Use hand concrete cutter in order to achieve a clean-cut edge at its 4 sides or prepare surface (roughen) to be layered with CALPATCH* RWC.HS. Make sure to provide at least 5 cm width and 2.5 cm depth of groove to serve as footing along the perimeter to avoid peeling off.

- * Chisel the damaged concrete surface.

- * Clean the concrete surface and ensure that it is free from loose particles, dust and other foreign materials.

- * Mix **WELDCRETE** bonding agent using 1 Kg **WELDCRETE**: 2 Kg type I cement, use hand mixer and make sure to avoid lumps.

- * Mix 36 kg type I cement, 96 kg (+/- 78.4 liter) clean sand (clay < 5%), **4 kg Part A & 0.45 kg Part B**, use 1 bagger mixer and mix for at least 30 seconds.

- * Add in **4.0 liters Part C** together with **5.5 liters Part D** and mix again for 30 seconds.

- * Add in **2.04 liters Part E** and mix again for at least 2 minutes and make sure that the mixture is even or without lumps.

- * Dampen the cleaned surface & apply a thin layer of **WELDCRETE** bonding slurry.

- * While the applied **WELDCRETE** bonding slurry is still wet (do not allow **WELDCRETE** bonding slurry to dry out, otherwise re-apply it), fill the prepared surface with **CALPATCH*RWC.HS** grout/mortar using leveler, spatula or hand trowel. Make sure to fill and press **CALPATCH*RWC.HS** mixture towards all the gaps to avoid any voids and honeycombs. Immediately level and smoothen the surface using mechanical trowel or hand steel trowel.

- * Make sure to complete the filling, leveling and finishing within 30 minutes.

- * Upon final setting of **CALPATCH*RWC.HS** grout/mortar, cure it by applying one layer of Cementaid **CALCURE B*R**.

Procedure:

- * Cut the damage concrete surface to form a rectangular shape at a minimum depth of 2.5 cm. Use hand concrete cutter in order to achieve a clean-cut edge at its 4 sides or prepare surface (roughen) to be layered with **CALPATCH* RWC.HS** concrete. Make sure to provide at least 5 cm width and 2.5 cm depth of groove to serve as footing along the perimeter to avoid peeling off.

- * Chisel the damage concrete surface.

- * Clean the concrete surface and ensure that it is free from loose particles, dust and other foreign materials.

- * Mix **WELDCRETE** bonding agent using 1 Kg **WELDCRETE**: 2 Kg type I cement, use hand mixer and make sure to avoid lumps.

- * Mix 36 kg type I cement, 48 kg (+/- 39.2 liters) clean sand (clay < 5%), 48 kg (+/- 37.6 liters) 5 mm clean gravel, **4 kg Part A and 0.45 kg Part B**, use 1 bagger mixer and mix for at least 30 seconds.

- * Add in **4.0 liters Part C** together with **5.5 lt Part D** and mix again for 30 seconds.

- * Add in **2.04 liters Part E** and mix again for at least 2 minutes and make sure that the mixture is even or without lumps.

- * Dampen the cleaned surface & apply a thin layer of **WELDCRETE** bonding slurry.

- * While the applied **WELDCRETE** bonding slurry is still wet (do not allow **WELDCRETE** bonding slurry to dry out, otherwise re-apply it) fill the prepared surface with **CALPATCH*RWC.HS** concrete mixture using leveler, spatula or hand trowel. Make sure to fill and press the **CALPATCH*RWC.HS** mixture towards all the gaps and use small vibrator (when thickness is 5 cm and above) to avoid any voids and honeycombs. Immediately level and smoothen the surface using mechanical trowel or hand steel trowel.

- * Make sure to complete the filling, leveling and finishing within 30 minutes.

- * Upon final setting of **CALPATCH*RWC.HS** concrete cure it by applying one layer of Cementaid **CALCURE B*R**.

Note :

Because CALPATCH *RWC contains accelerating ingredient, filling/leveling/finishing should be completed within 30 minutes. Should a rough broom finish be required, roughen the surface before its final setting. When DIAMITE is to be used, curing should be by water-ponding.

Yield: 0.0656 m³

Coverage: 1 batch = 3.27 m² at 2 cm thickness or 1.64 m² at 4 cm thickness

APPLICATION: CONTACT CEMENTAID FOR SUPPLY AND APPLICATION SERVICE

PT. CEMENTAID SALES AND SERVICES INDONESIA

Jl. Raya Bekasi KM 17 No. 5, Jakarta Timur 13930, Indonesia

Tel. No.: +622146823504 / +622146823505

Website: www.cementaid.co.id / www.cementaid.com



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