



Bonding Agent & Polymer for Cementitious Mortars

RAZON



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Anchorex-284

(High Performance Bonding Additive & Polymer for cementitious mortars)

Generally bonding of old mortar to new mortar or bonding to smooth surface or plastering to unhacked, form finish, smooth concrete is poor. To enhance bonding between such matrix additional bonding aid is necessary. Anchorex-284 is an additive which enhances bonding features as well as compressive, tensile adhesion and flexural strengths in cementitious mortars. Anchorex-284 reduces permeability in cementitious mortars.

For Lift Joints or Cold joints

Anchorex is milky white liquid. Used for bonding old-new concrete. It is poured over the receiving concrete surface just prior to the slab. This ensures formation of a high performance adhesive bond.

To provide good bonding, Anchorex 284 must be coated directly over the entire surface. Apply the fresh mortar or concrete when the Anchorex 284 is still wet and tacky. In case of smooth form finish surfaces, not hacked, one coat of Anchorex 284 may be directly applied on the concrete surface, and the concrete must be immediately poured, whilst the bonding agent is still wet. In case of delay in pouring of concrete / mortar, Another coat of Anchorex 284 may be applied and then the mortar may be placed.

For Repairs

To prepare priming for bonding on difficult to bond surface use Anchorex 284 directly.

Anchorex 284 can also be used for rehabilitation & repairs of RCC members where the steel bars are exposed or where cover to reinforcement is lost, due to chemical corrosion or due to saline corrosion.

Scrub the exposed surface with wire brush to remove all loose material, algae, bacterial cover etc. Hack surface if necessary to remove all loose material. Brush apply Anchorex 284.

Prepare cement, sand using 1 part cement + 3 part sand. Add Anchorex 284 in proportion 10-20 ltr per 50 kg cement & make up the entire cover lost on steel reinforcement with this mortar. Higher quantity of Anchorex 284 (20 ltr per 50 kgs) improves the performance of the mortar tremendously. Add slight amount of water (only if necessary) to achieve a hand-knead able dough like consistency. For heavy duty applications the proportion may be modified to 1 part cement + 1.5 part sand + 1.5 part Razon Grits. This material must be used whilst the Anchorex 284 priming which is brush coated is still wet & tacky. Water Cure this mortar as usual.

For Grouts or Slurry

For grouting; Mix Anchorex 284 with Cement in proportion of 3 kg Cement + 2 ltr water + 1 ltr Anchorex 284.

Performance

The following results were obtained in a 1:3 Cement & sand mortar using 10 litre per 50 kg cement Razon Anchorex 284 with suitable volume of free water

S/n	Particulars	Test Method	Results
1.	28 Days Compressive Strength	BS 6319 Pt 2	30 N/mm ²
2.	28 Days Tensile Strength	ASTM C190	3.55 N/mm ²
3.	28 Days Flexural Strength	BS 6319 Pt 3	6.0 N/mm ²
4.	Slant Shear Bond Strength	BS 6319 Pt 4	5.2 N/mm ²

Product Data

S/n	PRODUCT – DATA	
1.	Colour	White liquid
2.	pH	Neutral to slightly alkaline
3.	Specific gravity	1.02
4.	Life	1 year if stored in cool dry place, away from direct sunlight in a sealed container.
5.	Pot life after preparation of slurry or mortar.	The mortar must preferably be used within 30 minutes – 1 hour depending upon ambient temperature The slurry must be used within 1 – 2 hours.
6.	Corrosion & Toxicity	Nil. Neither initiates nor promotes corrosion of steel.
7.	Typical application	A high performance polymeric modifier for RCC members, damaged or spalled concrete, to reduce permeability, repair cracks, improve bonding in plaster, masonry and other cementitious mortars
8.	Packing	1 ltr, 5 ltr, 20 ltr, 50 ltr packing. Mix the contents thoroughly in the container before use. Keep the lid tightly closed after use.

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It is strongly recommended that site trials be conducted using site conditions and available raw materials to evaluate the product. Since site materials and conditions are beyond our control and since above suggestions and recommendations are based on our site trials and laboratory product evaluation & trials, and since methods of use at site are beyond our control. Hence, no guarantee can either be implied or enforceable. All Razon datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.



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