batimix®

Concrete, mortars & epoxies for repair and rehabilitation works

Concrete repair nomenclature, description and applicable standards

	Product's main application	ASTM standard
Concrete 500	Multi-purpose high strength concrete material ideal for partial or full depth repair and rehabilitation works. Ready-to-use, thus making it suitable in construction areas with difficult/limited accessibility	Exceeds C387
Concrete 520	High performance self-consolidating concrete for repair. It has extremely high flowability and moderate viscosity required to ensure homogenous deformation and adequate dynamic/static stability	Exceeds C387
Concrete 540	Accelerated setting concrete for repair, containing high alumina cement and up to 10-mm nominal aggregate size. Recommended for works which have to be ready-to-use within shorts periods of time	C928 Type R1
Concrete 541		C928 Type R2
Concrete 542		C928 Type R3
Concrete 560	High strength shotcrete materials that are projected under pressure onto the substrate using "dry process" applications. Applications include ground support in mining or tunneling applications, lining of sewers and shafts, slope stabilization, and soil nailing. Admissible substrates include rock, soil, brick, or any cementitious-based surface	C1480 Type CA (GU)
Concrete 561		C1480 Type CA (SR)
Concrete 562		C1480 Type CA (LP)
Concrete 563		C1480 Type CA (FR Class I)
Concrete 564		C1480 Type CA (FR Class II)
Concrete 580	Shotcrete materials applied using the "wet process" applications. Applications include strengthening and repairing existing structures and building complex architectural shapes such as skateboard parks, swimming pools, and earth retaining structures. The surfaces can have horizontal, vertical, or overhead orientation	C1480 Type CA (GU)
Concrete 581		C1480 Type CA (SR)
Concrete 582		C1480 Type CA (LP)
Concrete 583		C1480 Type CA (FR Class I)
Concrete 584		C1480 Type CA (FR Class II)

General properties:	Bulk density = around 1.8; Chloride content = nil; Nominal aggregate size = 10 mm; Yield = approx. 0.022 m3 per bag of 50 kg.
Directions for use:	Refer to the specific Applications Guidelines.
Packaging and storage:	All products are supplied in bags of 50 kg, and should be stored in closed dry place.
Health and safety:	All products contain cement, and are irritating to eyes and skin. Refer to MSDS.

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Mortar repair nomenclature, description and applicable standards

	Product's main application	ASTM standard
Mortar 600	Ready-to-use, non-shrink cementitious-based products for filling joints of different sizes. Mortars 600, 601, and 602 are used where joints are smaller than 2 mm, smaller than 10 mm, or larger than 10 mm	C1107 Grade C
Mortar 601		C1107 Grade C
Mortar 602		C1107 Grade C
Mortar 620	Thixotropic mortars with or without fiber reinforcement for repair applications with improved bonding and toughness characteristics	C887
Mortar 621		C887
Mortar 640	Accelerated setting mortar for repair. It contains high alumina cement and is particularly recommended for works which have to be ready-to-use within shorts periods of time	C928 Type R1
Mortar 641		C928 Type R2
Mortar 642		C928 Type R3
Mortar 660	High strength shotcrete mortars applied using the "dry process" methods. Applications include ground support in mining or tunneling applications, lining of sewers and shafts, slope stabilization, and soil nailing. Admissible substrates include rock, soil, brick, or any cementitious-based surface	C1480 Type FA (GU)
Mortar 661		C1480 Type FA (SR)
Mortar 662		C1480 Type FA (LP)
Mortar 663		C1480 Type FA (FR Class I)
Mortar 664		C1480 Type FA (FR Class II)
Mortar 680	Shotcrete mortars applied using the "wet process" applications. Applications include strengthening and repairing existing structures and building complex architectural shapes such as skateboard parks, swimming pools, and earth retaining structures. The surfaces can have horizontal, vertical, or overhead orientation	C1480 Type FA (GU)
Mortar 681		C1480 Type FA (SR)
Mortar 682		C1480 Type FA (LP)
Mortar 683		C1480 Type FA (FR Class I)
Mortar 684		C1480 Type FA (FR Class II)
Mortar 700	Polymer modified self-leveling underlayment and resurfacer mortar	N/A
Mortar 720	Dry shake, cementitious-based, floor hardener with increased resistance against abrasion and chemical attacks	N/A
Mortar 721		N/A
Mortar 740	Cementitious-based wear resistant mortar for concrete toppings	N/A
Mortar 760	Two-component, cementitious-based, waterproof and elastic slurry	N/A
Putty 770	Resin paste to be mixed with cement for fair-faced concrete	N/A

General properties:	Bulk density = around 1.4; Chloride content = nil; Yield = approx. 14 to 18 kg/m2/cm.
Directions for use:	Refer to the specific Applications Guidelines.
Packaging and storage:	All products are supplied in bags of 25 kg (except Putty 770), and should be stored in closed dry place.
Health and safety:	All products contain cement (except Putty 770), and are irritating to eyes and skin. Refer to MSDS.

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Concrete, mortars & epoxies for repair and rehabilitation works

Speciality product's nomenclature, description and applicable standards

	Product's main application	ASTM standard
Epoxy 100	Solvent-free, two-component epoxy resins for non-load bearing applications for bonding hardened concrete to hardened concrete and other materials, and as a binder in epoxy mortars or epoxy concrete	C881 Type I Grade 1
Epoxy 110		C881 Type I Grade 2
Epoxy 120		C881 Type I Grade 3
Epoxy 200	Solvent-free, two-component epoxy resins with different viscosity levels. Recommended in non-load bearing ap plications for bonding freshly mixed concrete to hardened concrete -	C881 Type II Grade 1
Epoxy 210		C881 Type II Grade 2
Epoxy 220		C881 Type II Grade 3
Epoxy Putty 140	Two-component, epoxy paste used for fair-faced surfaces, traffic bearing substrates, or for bonding skid-resistant materials to hardened concrete	C881 Type III Grade 2
Epoxy Primer 150	Solvent-free, medium viscosity epoxy primer used to seal and prime concrete and other substrates prior to applying liquid resin systems	C881 Type IV Grade 2
Epoxy Coating 200	Solvent-based, medium viscosity epoxy floor coating. It exhibits good self-leveling properties and excellent resistance to abrasion	
Epoxy Coating 250	Solvent-free, medium viscosity epoxy coating for concrete, grano, and mild steel. It has excellent abrasion and chemical resistance	C881 Types IV and V Grade 2
Epoxy Coating 260	Solvent-free, high-build epoxy coating to provide heavy duty floor coatings against high impact loads such as cars and fork-lifts	
SBR Latex 300	Multi-purpose latex-based agent for mixing or bonding cementitious-based materials within each other	C1059 Type II and C932
PU 350	Multi-purpose, elastomeric polyurethane product to completely seal and waterproof joints of various sizes	ISO 11600 Class F 25 LM
Rebar-Protect 410	One- or two-component zinc rich primers to prevent corrosion attack and improve bonding properties of steel embedments	N/A
Rebar-Protect 420		
Water Repellent 430	Water-repellent siliconate-based product for injection and repair applications	N/A

General properties: Refer to the specific Technical Data Sheet.

Directions for use: Refer to the specific Applications Guidelines.

Health and safety: Resin and hardener components are irritating to eyes and skin. Wear suitable gloves. Refer to MSDS.

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