MasterSeal 7000 CR

Waterproofing system, class A3 crack bridging, non-solvent, for reinforced concrete. Certified for contact with biogenic sulfuric acid and for drinking water DM 174 6/4/2004

MATERIAL DESCRIPTION

MasterSeal 7000 CR is an elastomeric waterproofing system based on the innovative "Xolutec" technology, with high chemical resistance, non-solvent, for roller and spray applications with bimixer. It is divided into Primer, MasterSeal P 770 or MasterSeal P 385 and Membrane, MasterSeal M 790.
Available in gray and red..

FIELDS OF APPLICATION

MasterSeal 7000 CR is suitable for example for the waterproofing of hydraulic structures subject to severe chemical attack such as treatment tanks of purification plants, digesters of biogas and purification plants, sewers, secondary tanks, chemical tanks in general.

FEATURES AND BENEFITS

MasterSeal 7000CRhas the following characteristics:

- not solvent-based;
- crack bridging class A3 UNI EN 1504/2 (0.5 - 1.25 mm);
- certified for chemical resistance to biogenic sulfuric acid that can be generated in anaerobic environments (sewers, urban and biogas purification digesters) according to "Fraunhofer Institute for Environmental, Safety, and Energy Technology UMSICHT, Osterfelder Straße 3, 46047 Oberhausen Germany" ;
- chemical resistance to a multitude of aggressive chemicals;
- certified for contact with drinking water according to Ministerial Decree 174 6/4/2004;
- compatible with supports with humidity even higher than 4%;
- fast: allows recommissioning after just 24 hours at 20°C;
- adheres monolithically to the support;
- high resistance to abrasion and impacts;
- responds to the principles defined in UNI EN 1504/2 (“Concrete surface protection systems”) and to the acceptance limits also with regard to severe chemical attack.

In compliance with the European Regulation (EU No 305/2011 and EU No. 574/2014) the product is provided with the CE marking according to UNI EN 1504-2 and the relative DoP (Declaration of Performance).

CE
1305
EN 1504-2
Surface protection system for concrete

PACKAGING

Product	Packaging	Kg	
MasterSeal P 770	Comp. A	2,2	
	Comp. B	2,8	
	Comp. A+B	5	
MasterSeal M 790	Comp. A	1,5	9
	Comp. B	3,5	21
	Comp. A+B	5	30
MasterSeal P 385	Comp. A	4,5	
	Comp. B	4,5	
	Comp. C	15	
	Comp. D	25	
	A + B + C	24.0	
	A + B + 2D	59.0	

STORAGE

Sthours the product in a sheltered, dry place at a temperature anywhere between +15°C and +25 °C.

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Systems Build Up, product and consumptions		kg/m²	Tempo (ricopertura e rimessa servizio)
System Build Up 1: concrete retaining ground to be repaired in a widespread manner			
Quick-drying repair mortar	MasterSeal P 385 D	1,7 / mm (2 – 40 mm)	24 hours
Watertight primer	MasterSeal P 385	1,5	48 hours (Version FAST 24 hours)
Primer	MasterSeal P 770	0.25-0.3	5 hours
Membrane	MasterSeal M 790	0,8-1	24 hours
System Build Up 2: concrete retaining ground or mixed resin/tile surfaces			
Epoxy-cement Primer	MasterSeal P 385	1,5	48 hours (Versione FAST 24 hours)
Primer	MasterSeal P 770	0.25-0.3	5 hours
Membrane	MasterSeal M 790	0,8-1	24 hours
System Build Up 3: concrete retaining ground to be repaired quickly or mixed resin/tile/concrete surfaces			
Quick-drying epoxy-cement repair mortar with primer function	MasterSeal P 385 AB2D	1,7 / mm (2 – 10 mm)	24 hours
Primer	MasterSeal P 770	0.25-0.3	5 hours
Membrane	MasterSeal M 790	0,8-1	24 hours
System Build Up 4: above ground concrete to be repaired			
Quick-drying repair mortar	MasterSeal P 385 D	1,7 / mm (2 – 40 mm)	24 hours
Primer	MasterSeal P 770	0,25-0,3	5 hours
Membrane	MasterSeal M 790	0,8-1	24 hours
System Build Up 5: above ground concrete			
Primer	MasterSeal P 770	0,25-0,3	5 hours
Membrane	MasterSeal M 790	0,8-1	24 hours
System Build Up 6: steel			
Membrane	MasterSeal M 790	0,8-1	24 hours

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Essential characteristic in accordance to UNI EN 1504/2 (2 mm)				Limits and class	Performances
Adhesion	In the absence of thermal cycles		UNI EN 1542 su supporto MC (0,40) EN 1766	> 0,8 MPa	> 2 MPa
	After 50 freeze / thaw cycles with UNI EN 13687/1 de-icing salts			> 0,8 MPa	> 2 MPa
	Wet UNI EN 13578			> 0,8 MPa	> 2 MPa
Adhension on steel			UNI EN 12188		> 7 MPa
Crack bridging ability a 23°C UNI EN 1062/7			Static	Classi A1; A2; A3; A4; A5	Class A3
			Dinamic	Class B1, B2 B3.1 B3.2 B4.1 B4.2	Class B3.1
Crack bridging ability a -10°C UNI EN 1062/7			Static	Classi A1; A2; A3; A4; A5	Class A2
Permeability	To Water vapor	UNI EN ISO 7783/1. Equivalent air thickness Sd, Sd = μ s, μ = coefficient Vapor diff., S = thickness		Class I: Sd < 5 m (Permeabile), Class II: Sd ≥ 5 e ≤ 50 m, Class III: Sd > 50 m (Non Perm.)	Class III
	to CO_2	UNI EN 1062/6. Equivalent thickness of air Sd, Sd = μ · s, μ = coeff. Diff. CO_2, s = thickness		Sd > 50 m	Sd > 200 m
	To water	For capillary absorption EN 1062/3		< 0,1 $kg \cdot m^{-2} \cdot h^{-0,5}$	< 0,001 $kg \cdot m^{-2} \cdot h^{-0,5}$
Mechanical strenght	Abrasion	UNI EN ISO 5470/1 (carico 1000 g mola H22/1000 cicli)		Weight lose < 3000 mg	< 200 mg
	Impact	UNI EN ISO 6272		Class I: 4 N·m Class II: 10 N·m Class III: 20 N·m	Class III
UV resistance	Aging by artificial atmospheric agents (2000 hours of UV rays and condensation), UNI EN 1062/11			No swelling, cracking or flaking	No swelling, cracking or flaking
Resistance to negative hydraulic pressure UNI 8298/8 (with MasterSeal P 385 primer)				Da 0 a 2,5 bar	2 bar
Essential characteristic in accordance to hydraulic pressure				**Limits and class**	**Performances**
Positive hydraulic pressure resistance, UNI EN 12390/8 (5 bar)				Guidelines Cons. Sup. LL.PP Average penetration <20 mm Penetration. maximum <50 mm	5 bar
Resistance to negative hydraulic pressure, UNI 8298/8				0 to 2,5 bar	2,5 bar

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CHEMICAL TABLE: CHEMICAL AGGRESSIVE AND RELATIVE GROUP UNI EN 13529

Aggressive chemical	liquid group UNI EN 13529	Aggressive chemical	liquid group UNI EN 13529
1,2-dichloroethane	6	Acetic anhydride	7
Acetaldehyde	7	Maleic anhydride	7
Amyl acetate	7	Aniline	13
Ethyl acetate	7	Antifreeze (ethylene glycol)	5
Acetophenone	7a	Benzene	4a
Acetone	7	Petrol, diesel and hydrocarbons	4
Acetic acid	9	Biodiesel (transesterified lipids)	7b
Acrylic acid	9a	Butanol	5
Adipic acid	9a	Caprolactam (amide)	7
Benzoic acid	9a	Jet fuel	2
Boric acid	10	Kerosene	2
Citric acid	9a	Cyclohexane	4
Hydrochloric acid	10	Chloroform	6a
Chloroacetic acid	9	Benzoyl chloride	6b
Chromic acid	10	Calcium chloride	12
Decanoic acid (capric)	9a	Sodium chloride	12
Heptanoic acid	9a	Cresoli	9
Aluminum sulphate	10	Detergents (acids)	10
Fumaric acid	9a	Phosphoric acid	10
Gallic acid	9a	Dichloromethane(methylenchloride)	6a
Glycolic acid	9a	Dimethylformamide	7
Lactic acid	9	Hexane	4
Lauric acid	9a	Ethanol	5
Maleic acid	9a	Phenol	9
Malic acid	9a	Formaldehyde (formalin)	8
Methacrylic acid	9a	Ethyl acetate glycol	7
Nitric acid	10	Diethylene glycol	5
Oleic acid	9a	Ethylene glycol	5
Oxalic acid	9	Propylene glycol	5
Picric acid	9	Fat	4b
Salicylic acid	9a	Calcium hydroxide	11
Sulfuric acid	10	Potassium hydroxide	11
Stearic acid	9a	Sodium hydroxide	11
Tartaric acid	9	Isopropanol (2-propanol)	5
Thioglycolic acid	9a	Milk	9
Trichloroacetic acid	9a	Brake fluid (polyglycols)	5
Aqua regia	10	Methyl methacrylate	7
Denatured alcohol	4	Methanol	5a
Monochlorobenzene	6b	Methylethylketone	7
N, N-dimethylacetamide	7	Ammonium sulfate	10
Ammonium nitrate	12	Copper (II) sulphate	12
Magnesium nitrate	12	Carbon sulfide	15 a
N-methyl-2-pyrrolidone	13	Styrene	4
Oleum (fuming sulfuric acid)	10	Tetrachlhoursthylen (perchlhoursthylene)	6
Mineral oils	3	Carbon tetrachloride	6a
Vegetable oils	4	Tetrahydrofuran	15
Raw oil	4b	Toluene	4
Tar oil	4	Toluene sulfonic	9a
Castor oil (fatty acids)	9a	Turpentine	4

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Aggressive chemical	liquid group UNI EN 13529	Aggressive chemical	liquid group UNI EN 13529
Motor oil	3	Trichlorobenzene	6b
Paraffin	4	Trichlhoursthylene	6
Phenil Sulfuric Acid	9	Urea	12
Brine (sodium chloride)	12	White spirit (solvent)	4
Methyl salicylate	7a	Xylene	4
Detergents (alkaline)	11	Chlorinated water	12

CHEMICAL PERFORMANCE UNI EN 1504/2.
Class I: after 3 days of contact Shhours reduction < 50%;
Class II 28 days of contact Shhours reduction < 50%;
Class III 28 days of contact under pressure, Shhours reduction < 50%

Chemical aggressive groups UNI EN 13529		Test liquid	Performance Shhours D
1	Petrol	47.5% by volume of toluene 30.4% by volume of isooctane 17.1% by volume of n-heptane 3% by volume of methanol 2% by volume of tertiary butanol	Classe III (8%)
2	Aviation fuel	1. 50.0% by volume of isooctane, 50.0% by volume of toluene 2. Aviation petrol 100 LL NATO Code F-18 3. Turbo fuel A-1 NATO code F-34 / F-35	Classe III (9%)
3	Unused heating and diesel oil and engine and gear oils	80% by volume of n-paraffin (C12 - C18) 20% by volume of methylnaphthalene	Classe III (8%)
4	All hydrocarbons including groups 2 and 3 except: 4 a) and 4 b) and engine and gear oils used	60% by volume of toluene 30% by volume of xylene 10% by volume of methylnaphthalene	Classe III (19%)
4a	Benzene and benzene-containing blends (including 2 - 4 b)	30% by volume of benzene 30% by volume of toluene 30% by volume of xylene 10% by volume of methylnaphthalene	Classe III (25%)
4b	Crude oil	10% by mass of isooctane 10% by mass of toluene 20% by mass of heating oil 10% by mass of 1-methylnaphthalene (95% min.) 47.7% by mass of heavy oil 0.2% by mass of thiophene (99%) 0.3% by mass of dibenzyldisulfide 0.5% by mass of dibutyldisulfide (97%) 1.0% by mass of mixture of naphthenic acids (acid value 230) 0.1% by mass of phenol 0.2% by mass of pyridine mixed with 2% by mass of water	Classe III (25%)
5	Mono and polyalcohols (up to 48% by volume of methanol), glycol ethers	48% by volume of methanol 48% by volume of isopropanol 4% by volume of water	Classe III (48%)
5a	All alcohols and glycol ethers (including 5)	Methanol	Classe III (18%)
Chemical aggressive groups UNI EN 13529		**Test liquid**	**Performance Shhours D**

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6	Halogenated hydrocarbons [including 6 b)]	Trichlhoursthylene	Classe I
6a	All aliphatic halogenated hydrocarbons (including 6 and 6 b)	Dichloromethane	Classe III (20%)
6b	Aromatic halogenated hydrocarbons	Monochlorobenzene	Classe II (43%)
7	All organic esters and ketones (including 7 a)	50% by volume of ethyl acetate 50% by volume of methyl isobutyl ketone	Classe III (8%)
7a	Aromatic esters and ketones	50% by volume of salicylic acid methyl ester salicylate 50% by volume of acetophenone	Classe I
7b	Biodiesel	Biodiesel	Classe III (10%)
8	Aliphatic aldehydes	35% - 40% of formaldehyde solution	Classe III (8%)
9	Aqueous solutions of organic acids up to 10%	10% aqueous acetic acid	Classe III (8%)
9a	Organic acids (except formic acid) and their salts (in aqueous solution)	50% by volume of acetic acid 50% by volume of propionic acid	Classe I
10	Inorganic acids up to 20% and acid hydrolysis salts in aqueous solution (pH <6) except hydrofluoric acid and oxidizing acids and their salts	Sulfuric acid 20%	Classe III (10%)
11	Inorganic bases and their salts with alkaline hydrolysis in aqueous solution (pH> 8) except ammonium solutions and oxidizing solutions of salts (for example hypochlorite)	Sodium hydroxide 20%	Classe III (11%)
12	Solutions of inorganic non-oxidizing salts with pH = 6 - 8	Aqueous solution of sodium chloride 20%	Classe III (13%)
13	Amines and their salts (in aqueous solution)	35% by volume of triethanolamine 30% by volume of n-butylamine 35% by volume of N, N-dimethylaniline	Classe I
14	Aqueous solutions of organic surfactants	1) 3% of Protectol KLC 50; 2% of Marlophen NP 9.5; 95% water 2) 3% of Texapon N 28, 2% Marlipal O 13/80, 95% water	Classe III (10%)
15	Cyclic and acyclic ethers	Tetrahydrofuran (THF)	Classe I
15a	Acyclic ethers	Ethyl ether	Classe III (19%)

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APPLICATION SHEET

For every application detail (preparation of the support, primer and other parameters) refer to the MasterSeal systems application manual for white and black water management.

TEMPERATURE

The application can take place when the ambient temperature is between +5°C and +40°C

DEGRADED CONCRETE: REPAIR WITH QUICK-DRYING MORTAR

Remove the layer of inconsistent and degraded concrete or contaminated by oils, greases or other substances and then quickly dry it with MasterSeal P 385 Comp. D mixed with water only.
If rapid drying and rapid development of the minimum tensile strength necessary to receive the MasterSeal 7000 CR system is not a fundamental requirement, mortars from the MasterEmaco line can be used. In these cases, always contact the Master Builders Solutions Technical Service to validate the choice of the correct MasterEmaco.

NON-DEGRADED CONCRETE

The surface must be prepared by sandblasting or sanding. Other specific techniques can also be used in specific cases (the choice of the same is to be evaluated following a visit to the construction site). The expansion and construction joints must be respected and sealed with MasterSeal NP 474, MasterSeal CR 170/171 or MasterSeal 930 sealants (for the choice, always contact the Master Builders Solutions Technical Service.

RESIN OR CERAMIC SUPPORTS

The surface must be prepared by sandblasting or sanding. On this type of support it is only possible to apply MasterSeal P 385 AB2D or MasterSeal P 385 ABC.

SUPPORT SATURATION

Befhours proceeding with the application of MasterSeal P 385, wet the highly absorbent surfaces with water, then remove any excess water with rags or jets of air. The support must appear saturated with a dry surface.

STEEL

For application on steel, MasterSeal M 790 does not require primer. These surfaces must be sandblasted to grade SIS Sa 3 (SSPC - SP 5) with a profile equal to grade n°11 of Rugotest n°3.

APPLICATION MasterSeal P 385 D + WATER

Add the mixing water indicated in the table to MasterSeal P 385 D. Mix with a whisk drill at low rotation speed (400-600 rpm) until a homogeneous mixture is obtained.

Techincal data	
Mixture density	c.a 2 kg/liter
Mixing water	17,5% (4,3 - 4,4 liter for bag)
Workability time	20 Minutesa 20°C
Setting times at 20 °C	start 45 minutes end 70 minutes
Operating temperature (air)	- 20°C – +80°C
Complete hardening at 20°C	28 days

Apply the material with a trowel

APPLICATION MasterSeal P 385 ABC (A + B + C)

Pour component B (hardener) into component A (base) and mix thoroughly until completely homogenised. Then add component C (inert) while stirring using a mechanical mixer. Mix until you obtain a homogeneous, lump-free mixture.

Technical data	
Useful life in open vessel	1 h a + 20°C
Mixing ratios	18%A, 18%B, 64%C
Operating temperature	- 20°C - +80°C (air)
Complete hardening at 20°C	7 days

It is applied with a spatula (without any addition of water) or by spray (adding no mhours than 5% of water), using pumps:

- Turbosol T7 type auger or equivalent with smoothing gun set up for the creation of thin layer coatings with the aid of an air compressor. Attention must be paid to consumption which could be higher than expected if too much emphasis is placed on one point;

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- mixed system (Airless, Air-Assist), such as Graco Tex spray T-Max series or equivalent, with or without the aid of a compressor using various spray lances (e.g. free flow in-line gun);
- piston type Graco Xtreme XL with "goose beak" gun for filled materials and the same nozzles previously described or equivalent. The set pressure must be 200 – 250 bar depending on the surrounding conditions. Particular attention must be paid to the wear of the mechanical parts of the machine (piston, liner, o-ring and bands must be subject to periodic maintenance).

During the application phase, keep the mixture constantly stirring. As is normal for products in water dispersion, do not work under the direct action of the sun, with wind, fog or strong humidity or risk of rain.
For further details contact the Technical Service.
Immediately after use, wash work tools carefully with water and detergent.

Versione Fast

To speed up coating times with resinous materials, it is possible to add the specific accelerator MasterTop AC 1200 dosed at 3% by weight of the A+B epoxy components to the mixture of P 385 ABC (A+B+C).
In this way the recoating time at 20°C is 24 hours as the residual humidity value is < 4% and the surface is hard enough to accept sanding.

MasterSeal P 385 ABC Fast	
MasterSeal P 385 A	4,5 kg
MasterSeal P 385 B	4,5 kg
MasterSeal P 385 C	15 kg
MasterTop AC 1200	0,26 kg (3% su A+B)

APPLICATION MasterSeal P 385 AB2D (A + B + 2D)

Pour component B (hardener) into component A (base) and mix thoroughly until completely homogenised. If necessary, add some water to the freshly mixed resin (A+B) up to a maximum of 10% of the total weight of component D.

Then add component D in the amount of 2 bags while stirring using a mechanical mixer. Mix until you obtain a homogeneous, lump-free mixture.

Technical data	
Useful life in open vessel	20 minutes a + 20°C
Mixing ratios	7% A, 7% B, 86 % 2D
Setting times at 20 °C	start 45 minutes end 85 minutes
Operating temperature	- 20°C – +80°C (air)
Complete hardening at 20°C	28 days

Apply with an American trowel.
Immediately after use, wash work tools carefully with water and detergent.

INSPECTIVE CHECK OF THE SUPPORT BEFHOURS APPLICATION OF THE SYSTEM

The support must be continuous and without holes or pitting and visually dry. The presence of any holes, even small ones, if they are not completely covered by the membrane, constitute an entry route for chemical substances which can cause deterioration of the concrete and corrosion of the reinforcement and therefhours must necessarily be avoided by correctly preparing the support.

COVERAGE TIMES

MasterSeal P 385: residual humidity and recoating times at 20°C (Carbide Hygrometer)

MasterSeal P 385	Time	moisture	Recoating	
Comp. D + water	24 hours	< 6 %	MasterSeal P 770	☺
Kit “ABC”	24 hours	< 6 %	MasterSeal P 770	☺
Kit “AB2D”	24 hours	< 6 %	MasterSeal P 770	☺

APPLICATION OF THE MasterSeal P 770 PRIMER

Mix the two components separately; then pour component A into component B, mixing well with a low speed mechanical mixer. The product must be applied with a roller in a single coat, saturating all the porosities well.

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Technical data	
Density	1,2 kg/liter
Humidity of the support	dry
Ambient humidity	≤ 85% a 20°C
Mixing ratios By weight By volume	 44 % A / 56 % B 1 A / 1,16 B (46% A / 54% B)
Useful life	20 minutes a + 20°C
Kinematic viscosity UNI EN ISO 3219	650 mPa·s
Out of touch at 20°C	5 hours
Recoating time (min-max) - - 5°C - - 20°C	 11 – 48 hours 5 – 24 hours
Cleaning agent	Thinner

Once the maximum recoating times have been exceeded, the support must be sanded.
MasterSeal P 770 can also be applied by spray using a Graco XM 50/70 type bimixer.

APPLICATION OF THE MasterSeal M 790 MEMBRANE

Mix the two components separately. Then pour all of component A into component B, mixing well with a low-speed mechanical mixer. The product must be applied with a roller in two coats, respecting the recoating times, at a rate of 0.4 kg/m2 per coat.
It is always recommended to make the first coat of one color (for example gray or red) and the second of another (for example red or grey). This also gives the possibility of evaluating any abrasion over time and planning maintenance over time.
MasterSeal M 790 can also be applied by spraying in one coat using a Graco XM 50/70 type bimixer.

Technical data	
Density	1,2 kg/liter
Ambient humidity	≤ 85% a 20°C
Mixing ratios By weight - By volume	 30 % A / 70 % B 1 A / 2,6 B (28% A / 72% B)
Kinematic viscosity UNI EN ISO 3219	2800 mPa·s
Useful life	25 minutes a + 10°C 20 minutes a + 20°C 15 minutes a + 30°C
Recoating time (min-max) - - 5°C - - 20°C	 24 – 48 hours 8 – 24 hours
Impermeable to pressurized water at 20°C	Dopo 24 hours
Chemically resistant to 20°C	Dopo 24 hours
Temperature resistance	Aria: -20 - +80°C Acqua: fino a +60°C
Shhours D hardness EN ISO 868/07	c.a 80
Tensile strength EN ISO 527-1/-2	> 20 MPa
Cleaning agent	Thinner

Once the maximum recoating times have been exceeded, the support must be sanded.

SANITIZATION OF TANKS

Use a solution of 1% sodium hypochlorite (bleach) in water. Leave to act for at least 30 minutes and a maximum of 60 minutes, then wash thoroughly with tap water.
In case of very dirty surfaces, this process can be repeated a second time or higher concentrations of sodium hypochlorite (maximum 5%) can be used.

SAFETY INSTRUCTION

For information on the correct and safe use, transport, storage and disposal of the product, consult the most recent Safety Data Sheet.

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OTHER SERVICES

For price analysis, specifications, supplementary brochures, references, reports and technical assistance, visit the website www.master-builders-solutions.com/it-it or contact infomac@mbcc-group.com.

Scan the QR code to visit the product page and download the latest version of this datasheet.

Since 16/12/1992, Master Builders Solutions Italia Spa has been operating under a Certified Quality System compliant with the UNI EN ISO 9001 Standard. Furthermhours, the Environmental Management System is certified according to the UNI EN ISO 14001 Standard and the Safety Management System is certified according to the UNI ISO 45001 Standard.

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