Sika® MonoTop®-412 NFG

R4 Structural Repair Mortar with Corrosion Inhibitor

Product Description	Sika [®] MonoTop [®] -412 NFG is a 1-component, polymer modified, fibre reinforced, low shrinkage structural repair mortar with corrosion inhibitor meeting the requirement of class-R4 of EN 1504-3.		
Uses	Suitable for restoration work (Principle 3, method 3.1 & 3.3 of EN 1504-9). Repair of spalling and damaged concrete in buildings, bridges, infrastructure and superstructure works.		
	Suitable for structural strengthening (principle 4, method 4.4 of EN 1504-9). Increasing the bearing capacity of the concrete structure by adding mortar.		
	Suitable for preserving or restoring passivity (principle 7, method 7.1 and 7.2 of EN 1504-9). Increasing cover with additional mortar and replacing contaminated or carbonated concrete.		
Characteristics /	Polymer modified for increased durability		
Advantages	Superior workability and finishing		
	Suitable for hand and machine application		
	Can be applied up to 50 mm thick per application layer		
	Class R4 of EN 1504-3		
	Structural repair		
	Very low shrinkage behaviour		
	Contains corrosion inhibitor		
	Low chloride permeability		
	■ A1 fire rating		
Tests			
Approval / Standards	MPA Stuttgart, Fire Classification and Test Reports, 901 5975 000/09 1-3 dated 28 th September 2009.		
	Sika Corporation R&D, Rapid Chloride Permeability and Electrical Resistivity of SMT-412 NFG to ASTM C-1202 report N° dated 25.05.2010.		
Product Data			
Form			
Appearance / Colour	Grey powder		
	20kg bag		



Technical Data Chemical Base Portl Density Fres Grading D _{max}	nonths from date of caging, in dry cooled land cement, corros h mortar density: ~	d conditions.	ored properly in undama	ged original sealed
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Grading D _{max}		2 10 kg/l	cotoa aggregates ana p	oolymer modified.
	· 2 0 mm	2.10 kg/l		
Layer Thickness 6 mr	. 2.0 11111			
	n min / 50 mm max			
Shrinkage ~ 60	0 μm/m @ 23°C 50	% relative humi	dity at 28 days	(AS 1472.8)
Thermal Expansion 10.5 Coefficient	10.5 10 ⁻⁶ m/m.°C (EN 1770)			
Chloride Ion Very Penetrability Class	low			(ASTM C-1202)
Mechanical / Physical 20°C Properties	20°C in lab conditions			
Compressive Strength				(AS 1472.8)
1 da	y 7	days	28 days	
~ 15	N/mm² (MPa) ~	40 N/mm² (MPa)	~ 52 N/mm² (MPa)	
Flexural Strength				(EN 196-1)
1 da	y 7	days	28 days	
~ 4 1	V/mm² (MPa) ~	6 N/mm² (MPa)	~ 7 N/mm² (MPa)	
Requirements Requ	uirements as per El	N 1504-3 Class	R4 (tested at Water: Po	wder ratio = 14.5%)
		Test Method	Results (ITT results)	Requirements (R4)
Comp	pressive Strength	EN 12190	≥ 45 N/mm² (MPa)	≥ 45 N/mm² (MPa)
Chlor	ride Ion Content	EN 1015-17	< 0.05 %	≤ 0.05%
Capil	lary Absorption	EN 13057	≤ 0.5 kg.m ⁻² .h ^{-0.5}	≤ 0.5 kg.m ⁻² .h ^{-0.5}
Carbo	onation Resistance	EN 13295	Pass	Lower than control
Elast	ic Modulus	EN 13412	≥ 20 kN/mm² (GPa)	≥ 20 kN/mm² (GPa)
	mal Compatibility 1: Freeze-Thaw	EN 13687-1	≥ 2.0 N/mm² (MPa)	≥ 2.0 N/mm² (MPa)
Adhe	sive Bond	EN 1542	≥ 2.0 N/mm² (MPa)	≥ 2.0 N/mm² (MPa)

System Information

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System Structures	Sika MonoTop-412NFG is part of the range of Sika mortars complying with the relevant part of European Standard EN 1504 and comprising of: Bonding primer and reinforcement corrosion protection		
	Repair mortar: - Sika [®] MonoTop [®] -412 NFG:	Structural hand & machine applied repair mortar (R4 type)	
	Fairing coat: - Sika [®] MonoTop [®] -723N:	Pore sealer and fairing mortar	

materials which reduce bond or prevent suction or wetting by repair mater Steel reinforcement: Rust, scale, mortar, concrete, dust and other loose and deleterious materi reduces bond or contributes to corrosion shall be removed. Reference should also be made to EN1504-10 for specific requirements Concrete: Delaminated, weak, damaged and deteriorated concrete and where neces sound concrete shall be removed by suitable means. Steel reinforcement: Surfaces shall be prepared using abrasive blast cleaning techniques or his pressure water-blasting. Bonding primer: On a well prepared and roughened substrate a bonding primer is generall required. When a bonding primer is not required pre-wet the surface. The shall not be allowed to dry before application of the concrete repair mortas and pits shall not contain water. When a bonding primer is necessary apply Sika® MonoTop®-910 N (refer relevant Product Data Sheet) or the same product — Sika® MonoTop®-910 N (refer relevant Product Data Sheet) or the same product — Sika® MonoTop®-910 N (refer relevant Product Data Sheet) or the same product — Sika® MonoTop®-910 N (refer relevant Product Data Sheet) or the same product — Sika® MonoTop®-910 N (refer relevant Product Data Sheet) or the same product — Sika® MonoTop®-910 N (refer relevant Product Data Sheet) or the same product — Sika® MonoTop®-910 N (refer relevant Product Data Sheet) or the same product — Sika® MonoTop®-910 N (refer relevant Product Data Sheet) or the repair mortar shall be done v Reinforcement corrosion protection: Where a reinforcement coating is required as a barrier (e.g. in case of inst concrete gover), apply to the whole exposed circumference two coats of S MonoTop®-910 (Refer to the relevant Product Data Sheet). Application Instructions Mixing Sika® MonoTop®-412 NFG can be mixed with a low speed (< 500 rpm) he mixer or for machine application, using a force action mixer 2 to 3 bags or once depending the type and size of mixer. In small quantity, Sika® Mono NFG can also be	pplication Details	
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The concrete shall be free from dust, loose material, surface contamination materials which reduce bond or prevent suction or wetting by repair mater a Steel reinforcement: Rust, scale, mortar, concrete, dust and other loose and deleterious materine duces bond or contributes to corrosion shall be removed. Reference should also be made to EN1504-10 for specific requirements Substrate Preparation / Concrete: Delaminated, weak, damaged and deteriorated concrete and where necessound concrete shall be removed by suitable means. Steel reinforcement: Surfaces shall be prepared using abrasive blast cleaning techniques or hipressure water-blasting. Bonding primer: On a well prepared and roughened substrate a bonding primer is generall required. When a bonding primer is not required pre-wet the surface. The shall not be allowed to dry before application of the concrete repair mortar surface shall achieve a dark matt appearance without glistening and surface shall achieve a dark matt appearance without glistening and surface shall achieve a dark matt appearance without glistening and surface shall achieve a dark matt appearance without glistening and surface shall entire an application of the concrete repair mortar surface shall achieve a dark matt appearance without glistening and surface shall entire an application of the repair mortar shall be done to the new service of the repair mortar shall be done to the relevant Product Data Sheet) or the same product – Sika® MonoTop®-412 mixed wetter than normally required, applied well on the substrate with a lin both cases, subsequent application of the repair mortar shall be done to Reinforcement corrosion protection: Where a reinforcement coating is required, as a barrier (e.g., in case of inst concrete cover), apply to the whole exposed circumference two coats of S MonoTop®-412 NFG can be mixed with a low speed (< 500 rpm) he mixer of ror machine application using a force action mixer 2 to 3 bags or once depending the type and size of mixer. In small quantity, Sika®		1 bag yields approximately 10.9 litres of mortar
Rust, scale, mortar, concrete, dust and other loose and deleterious materi reduces bond or contributes to corrosion shall be removed. Reference should also be made to EN1504-10 for specific requirements Concrete: Delaminated, weak, damaged and deteriorated concrete and where necessound concrete shall be removed by suitable means. Steel reinforcement: Surfaces shall be prepared using abrasive blast cleaning techniques or hip pressure water-blasting. Bonding primer: On a well prepared and roughened substrate a bonding primer is generall required. When a bonding primer is not required pre-wet the surface. The shall not be allowed to dry before application of the concrete repair mortan surface shall achieve a dark matt appearance without glistening and surface and pits shall not contain water. When a bonding primer is necessary apply Sika® MonoTop®-910 N (refer relevant Product Data Sheet) or the same product – Sika® MonoTop®-412 mixed weter than normally required, applied well on the substrate with a sin both cases, subsequent application of the repair mortar shall be done or Reinforcement corrosion protection: Where a reinforcement cortising is required as a barrier (e.g. in case of insconcrete gover), apply to the whole exposed circumference two coats of S MonoTop®-910 (Refer to the relevant Product Data Sheet). Application Conditions / Limitations Substrate Temperature +5°C min.; +30°C max. Ambient Temperature +5°C min.; +30°C max. Application Instructions Mixing Ratio -2.7 – 3.0 litres of water for 20kg powder Mixing Ratio -2.7 – 3.0 litres of water for 20kg powder Mixing Ratio -2.7 – 3.0 litres of water for 20kg powder Sika® MonoTop®-412 NFG can be mixed with a low speed (< 500 rpm) has mixer or for machine application, using a force action mixer 2 to 3 bags or once depending the type and size of mixer. In small quantity, Sika® Mono Top®-412 NFG can be applied either manually using traditionate the required consistency. Application Method / Sika® MonoTop®-412 NFG can be applied either manually	ubstrate Quality	Concrete: The concrete shall be free from dust, loose material, surface contamination and materials which reduce bond or prevent suction or wetting by repair materials.
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Conditions / Limitations Substrate Temperature +5°C min.; +30°C max. Ambient Temperature +5°C min.; +30°C max. Application Instructions Mixing Ratio ~ 2.7 – 3.0 litres of water for 20kg powder Mixing Sika® MonoTop®-412 NFG can be mixed with a low speed (< 500 rpm) had mixer or for machine application, using a force action mixer 2 to 3 bags or once depending the type and size of mixer. In small quantity, Sika® MonoNFG can also be manually mixed. Pour the water in the correct proportion into a suitable mixing container. We stirring slowly, add the powder to the water. Mix thoroughly at least for 3 mathematically using wet spray equipment. When a bonding primer is required, ensure it is still tacky when the repair pressed on (wet on wet technique). When applied manually, pressed the recommendation of the content of the still tacky when the repair pressed on (wet on wet technique). When applied manually, pressed the recommendation of the content of		Where a reinforcement coating is required as a barrier (e.g. in case of insufficient concrete cover), apply to the whole exposed circumference two coats of Sika®
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Tools techniques or mechanically using wet spray equipment. When a bonding primer is required, ensure it is still tacky when the repair pressed on (wet on wet technique). When applied manually, pressed the		Pour the water in the correct proportion into a suitable mixing container. While stirring slowly, add the powder to the water. Mix thoroughly at least for 3 minutes to the required consistency
pressed on (wet on wet technique). When applied manually, pressed the		Sika® MonoTop®-412 NFG can be applied either manually using traditional techniques or mechanically using wet spray equipment.
mortar with a trowel, pressing it well on the substrate.		When a bonding primer is required, ensure it is still tacky when the repair material is pressed on (wet on wet technique). When applied manually, pressed the repair mortar with a trowel, pressing it well on the substrate.
Finishing for both hand and machine application, can be done with the rel roughcast as soon as the mortar has started to stiffen.		Finishing for both hand and machine application, can be done with the relevant roughcast as soon as the mortar has started to stiffen.

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Cleaning of Tools	Clean all tools and application equipment with water immediately after use. Hardened material can only be mechanically removed.	
Potlife	at +20°C: ~ 40 minutes	
Notes on Application / Limitations	 Refer to the Method Statement for Concrete Repair using Sika[®] MonoTop[®] system for more information regarding substrate preparation or refer to the recommendations provided in EN 1504-10 	
	 Avoid application in direct sun and/or strong wind. 	
	 Do not add water over recommended dosage 	
	 Apply only to sound, prepared substrate 	
	 Do not add additional water during the surface finishing as this will cause discoloration and cracking 	
	 Protect freshly applied material from freezing 	
	 Overhead hand applications layer thickness 6 mm min / 30 mm max. 	
Curing Details		
Curing Treatment	Protect the fresh mortar from early dehydration using the relevant curing method.	
Value Base	All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.	
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.	
Important Notification	The information, and, in particular, the recommendations relating to the application and end-use of Sika's products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Australian version of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.	

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER





INFORMATION.