

**Product Data Sheet**

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Sika Monotop 910N

Construction

# Sika Monotop®-910N

## Anti-corrosion protection of reinforcing concrete

<b>Presentation</b>	Sika Monotop 910 N is a cement-based single-component grout, corrosion and silica fumes inhibitor, compliant with EN 1504-7.
<b>Fields of application</b>	Sika Monotop 910 N is used as a protective coating on reinforcing concrete before repair according to EN 1504-3.
<b>General characteristics</b>	Easy and rapid implementation Barrier effect against water and chlorides Impervious to humidity Excellent adhesion on steel and concrete Possible wet spray application.
Approvals, official tests	CE EN 1504-7 marking Principle 11 (Control of anodic areas): method 11.1
<b>Characteristics</b>	
Shades	Grey
<b>Packaging</b>	Bucket of 10 kg
<b>Storage</b>	The product must be stored between +5°C and +25°C in its unopened original packaging away from humidity.
<b>Preservation</b>	12 months in the conditions described above
<b>Technical data</b>	
<b>Density</b>	Density of the fresh grout: approx. 2
<b>Chemical composition</b>	Hydraulic binder based
<b>Total chloride content (weight)</b>	0.01 % (EN 1015-17)
<b>Thermal expansion coefficient</b>	15 x 10 <sup>-6</sup> m/m per °C (EN 1770)
<b>Carbon dioxide diffusion resistance (μCO<sub>2</sub>)</b>	Approx. 200
<b>Water vapour diffusion resistance</b>	Approx. 80
<b>Mechanical resistance</b>	Compressive strength (EN 196-1): approx. 50 MPa at 28 days Bending strength (EN 196-1): approx 6.5 MPa at 28 days Tensile strength: approx. 2.5 MPa at 28 days
<b>Resistance to deicing salts</b>	High (SIA 262/1)
<b>Module E</b>	Approx. 20 GPa (Static)
<b>Application conditions</b>	1 bucket (10 kg) gives approximately 12.1 kg of grout.
<b>Mixture proportions</b>	
Consumption/Dosage	<b>Protection of concrete reinforcing bars</b> Approximately 2.4 kg of grout per m <sup>2</sup> and per mm of thickness
<b>Preparing the substrate</b>	The metal surfaces must be clean, free from oil and grease, as well as without rust and scales. In case of doubt, prepare a sample surface.
<b>Implementation</b>	Apply a coat of approximately 1 mm thickness with a semi-hard brush or spray on the already treated concrete reinforcing bars. The second coating of the same thickness is applied after waiting for 4 to 5 hours at +20 °C. Sika Monotop 910N constitutes an excellent adhesion layer under the reshaping mortar.
<b>Conditions for use</b>	From +5°C to +35°C
<b>Preparing the mixture</b>	<b>For application with a brush</b> Water: Mortar powder = 1 : 4.55 parts by weight, i.e. 2.1l of water per 10 kg bucket.  <b>For spray application</b> Water: Mortar powder = 1 : 5.00 parts by weight, i.e. 2.0l of water per 10 kg bucket.  Pour the quantity of water compliant with the mixture ratio in a suitable container. Slowly add all the powder while stirring constantly. Mix for a minimum of 3 minutes using an electric mixer rotating at slow speed (max. 500 rpm) to draw in minimum amount of air.



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<b>Pot life</b>	Approximately 90 – 120 minutes at +23 °C
<b>Cleaning of tools</b>	Clean the tools with water immediately after use. Hardened material can only be removed mechanically.
<b>Precautions for use</b>	Consult the safety data sheet accessible on our website <a href="http://nga.sika.com">nga.sika.com</a> .
<b>Legal statements</b>	Product reserved strictly for professional uses Our products are covered by a third- party liability insurance. «The information in this data sheet and, specially, the recommendations concerning the application and the final use of SIKA products are provided in all good faith and are based on the knowledge and the experience that the SIKA company has acquired to date of its products, when they have been properly stored, handled and applied under normal circumstances. In practice, the differences between the materials, the substrates and the specific conditions on site are such that this information or any written recommendation or advice given do not imply any warranty of marketable quality other than the legal warranty against hidden defects. Our agencies are at your service, should you require any further precision. Our liability should in no way be involved, in case the use is not compliant with our warnings. The ownership rights held by third-parties must absolutely be complied with. All orders are welcome ,subject to our current conditions of Sale and Delivery. Users must absolutely refer to the latest version of the technical data sheet matching the product concerned ; it shall be sent to them on request.»

CE Marking

CE
2116
Sika Services AG Tüffenwies 16 CH-8048 Zürich 1003
<b>09</b>
<i>2116-CPD-0101</i>
<b>EN 1504-7</b>
Product for anticorrosion protection of concrete reinforced bars
Anti-corrosion protection: compliant
Hazardous substances: <u>Compliant with 5.3</u>



**Sika Manufacturing Nigeria LTD**  
10, Western Industrial Avenue,  
Isheri Riverview Estate, Lagos-  
Ibadan Expressway, Nigeria.  
Tel.: +234 80 90 44 22 21  
[nga.sika.com](http://nga.sika.com)