Special information

Version 1

Determination of chloride in concrete

Instructions	
Parameter	Chloride
Product group	*VISOCOLOR*® and *NANOCOLOR*®
Reagents and equipment	*NANOCOLOR*® Chloride 50 (REF 985021), *NANOCOLOR*® Chloride 200 (REF 985019) or *NANOCOLOR*® Chloride (REF 91820) As alternative: *VISOCOLOR*® Chloride CL 500 (REF 915004) or *VISOCOLOR*® *ECO* Chloride (REF 931018) Digital piston pipette 1.0 – 5.0 mL, adjustable (REF 916909) Volumetric flask 100 mL with NS 12/21 and PE-stopper (REF 91683) Nitric acid 1 mol/L
Sample preparation	1. Use bore dust (e.g. produced by a metal drill, ∅ 30 mm) or milled concrete. 2. Put **4.0 g** of the dried concrete sample into a volumetric flask 100 mL. 3. Add **6.0 mL** of nitric acid c = 1 mol/L into the volumetric flask, close and mix it. Wait until the silicic acid settles down (i.e. until a cloudy precipitate formed). 4. Fill volumetric flask with distilled water up to mark. 5. Fill the content into a beaker after the precipitation has settled down.
Analysis	Perform the test according instruction leaflet. The read off measurement result from the titration syringe, colour chart or photometer display is translated into % chloride (referred to the concrete mass) regarding to the following equation: Calculation: $\frac{mg/L\ Cl^-}{400} = \%\ Cl^-$

Contact

If you have further questions, please do not hesitate to contact us:

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