METHOD STATEMENT
Sika®-1

DATE, : 08 / 2015

VERSION NO. 1

SIKA EGYPT

ENG. ASHRAF ELZINY

TECHNICAL DEPATEMENT

BUILDING TRUST

1. Scope : WATERPROOFING COMPOUND FOR MORTAR AND CONCRETE (NORMAL SETTING WATERPROOFING ADDITIVE, CHLORIDE FREE, AND BEING NON-TOXIC IN A CEMENT MORTAR IS SUITABLE FOR CONTACT WITH POTABLE WATER.)

Listed by the UK Water Fittings Byelaws Scheme No. 8905510.

Certified by the British Board of Agreement Certificate No. 87/1937.

Preliminary Works and surface preparation

1.1 Clean out surfaces, must be 100% roughened using small wire brushes or compressed air to remove all loose and friable materials, as well as mud and other impurities.

1.2 All concrete surfaces must be clean, free from standing, water and all loosely adhering particles.

2. Execution

2.1 APPLICATION

2.1.1 AS A WATERPROOFING ADMIXTURE FOR MORTAR:

The addition of Sika 1 to mortar will increase the water tightness without impeding the breathing of the walls, thus reducing the risk of condensation and damage due to frost and efflorescence. Dilution 1: 10 with the gauging water and use at approx. 2.25 litres per 50 kg. of cement.

2.1.2 AS PREMEABILITY REDUCING AGENT FOR CONCRETE :

Producing watertight concrete. The standard dosage of Sika 1 is 9 litres per cubic meter.
It can be used in conjunction with the water reducing plasticizer Plastiment at dosage rate of 2 litres per cubic meter or Sikament super plasticizer.
It can be added separately to the mix at a rate of 7 litres per cubic meter.

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2.1.3 AS RENDERING TO RESIST MOISTURE AND DAMPNESS ABOVE GROUND LEVEL :

Apply the first coat of a 1:1 (cement : sand) mortar with Sika 1 less than 6 mm. thickness tacking care to cover the whole surface.

Apply a second coat not less than 6 mm. thick. As soon as the previous coat has stiffened sufficiently (usually after 4-5 hours). The second coat should be 1:2.5 (cement: sand) with a wood float finish.

2.1.4 As rendering to resist water pressure :

Dilution of Sika 1 by 1 : 10 with gauging water

Apply the first coat of a 1 : 1 (cement: sand) mortar with Sika 1 less than 6 mm. thickness tacking care to cover the whole surface.

Apply the second coat not less than 6 mm. thick. As soon as the previous coat has stiffened sufficiently (usually after 4-5 hours). On completion apply a splatter coat of the same mortar, mixed to sloppy consistency with plain water, over the whole surface to form a key for the next coat.

The next day, final coat of mortar 1 : 2.5 with Sika 1 approx. 6 mm. thick.

It should be finished with a wood float.

Where a four coat rendering against high water pressure is required then an additional 1: 1.5 coat is applied with a following splatter key coat on the second day thus extending the process by one day.

For any further clarification don't hesitate to contact Sika Egypt Technical Department.

Technical Department

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