SYLOCON®- Analytical Synopsis

Carbon nanotubes are introduced in SYLOCON® to fabricate a uniform Nanocomposite that can be used in cementitious composite. But, mostly while introducing Nanotubes in cementitious composite, homogeneous distribution is hindered. It is the key factor to obtain the desired results. The desired results are durability, less ingression of water with soluble salts to wet the surface only, excellent mechanical performance, advantageous microstructural changes. Heat of hydration developed during production of calcium silicate hydrate is one of the main causes of micro crack development in cementitious materials.

Moreover it is observed that formation of nanoscale pores and cracks development is the vital drawback in cementitious products. But, well designed

SYLOCON® provides excellent mechanical performance that prepare a crack free cementitious product. The analysis is based on laboratory evaluation and field application of the composite since last more than 15 years.

The important parameters for a durable cement mortar as observed in analytical study,

a) Less initial compressive strength (7 days), higher compressive strength after 28 days.
b) Higher initial flexural strength (7 days), lesser flexural strength after 28 days.
c) Tensile strength never exceeds a limit.
d) Good resistant to water and salt ingression.
e) Minimized rebound loss.

The above characteristics of "SYLOCON® modified cement mortar microstructure" play an essential role that have an effective result to make a mortar durable supporting all the relevant parameters durability requires.CNT within the cement composite can act as a nucleation agent and promote the sedimentation and growth of hydration

products. Preferably, calcium silicate hydrate (C-S-H) gel should be observed around the CNTs within the cement composites.

The above analytical findings proves that Carbon Nanotubes in SYLOCON® acts as a nucleation component that promotes the sedimentation and growth of hydration products. Preferably, calcium silicate hydrate (C-S-H) gel should be observed around the CNTs within the cement composites.

भारत सरकार Government of India
राष्ट्रीय परीक्षण शाला (पू.क्षे.)
National Test House (ER)
राष्ट्रीय परीक्षण शाला (पू.क्षे.), ब्लॉक-सी.पी., सेक्टर-V, सॉल्ट लेक, कोलकाता, पश्चिम बंगाल - 700091
Block-C.P, Sector-V, Salt Lake, Kolkata, West Bengal - 700091

सत्यमेव जयते

PART A. PARTICULARS OF SAMPLE SUBMITTED

COMPLETE TEST CERTIFICATE

भाग 'अ' जमा किये गये नमूने का विवरण

परीक्षण प्रमाणपत्र सं/Test Certificate No:	SRF Number:	जारी होने की तिथि/Date of issue	कोड सं/QR Code
NTH(ER)/CIV(G)/23/5612_1	NTH(ER)/CIV(G)/23/5612	05 Sep, 2023	: NTH230032120

a) जिसे जारी करना है/Issued To	:	ANN WORLD
b) पता/Address	:	244, SWAMI TAGESWARANANDA SARANI, SARADAPALLY, BHADRESWAR, BHADRESWAR, Hooghly, West Bengal, India - 712124
c) ग्राहक का संदभ सं एवं दिनांक/Customer's Ref. No.	:	NIL dated 06.08.2023
d) नमूना मुहरबंद स्थिति/Sample Sealed Status	:	Not Applicable
e) परीक्षण सामग्री का विवरण/Description of Test item	:	SYLOCON
f) नामपद्धति का विवरण/Description of Nomenclature	:	SYLOCON
g) नमूना का विशिष्टता (यदि हो) /Product Specification(if any)	:	Custom ASTM - Non Shrinking Grouts / Mortar - Method of Test ASTM
h) नमूना प्राप्ति की तिथि /Date of Receipt of the Test item	:	09 Aug, 2023
i) काय सम्पादन की तिथि/Date(s)of Performance of Tests	:	From: 05 Sep, 2023 To: 05 Sep, 2023
j) Quantity	:	0.1 litre
k) Any other Information / Expiry Date, If any	:	AS PER LETTER
l) Section Code	:	23CVD375N (Pages:3)
m) Section Certificate No.	:	23CVD375N_1
n) Certificate Type	:	New
o) Reference Certificate No.	:	
p) Remarks	:	Please find the Test Report.

Arvind Singh Negi
OIC SAMPLE CELL
(Authorized Signatory)
Authorized on: 05 Sep, 2023 14:57 PM

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National Test House (ER)
राष्ट्रीय परीक्षण शाला (पू.क्षे.), ब्लॉक-सी.पी., सेक्टर-V, सॉल्ट लेक, कोलकाता, पश्चिम बंगाल - 700091
Block-C.P, Sector-V, Salt Lake, Kolkata, West Bengal - 700091

Section Certificate No. : 23CVD375N_1 Custom ASTM

PART B. SUPPLEMENTARY INFORMATION

1.	नमूना लेने की प्रक्रिया का संदर्भ, जहां लागू हो! Reference to sampling procedure, wherever applicable.	Not Applicable
2.	परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्राप्ति हेतु सहायक प्रलेख जैसे ग्राफ, तालिका, चित्र और / अथवा फोटोग्राफ, यदि कोई हो। Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test certificate, if any.	Not Applicable
3.	सम्बध्द मानक / कार्य निदशो में निधारित परीक्षण पद्धति से विचलन, यदि कोई हो। Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.	Not Applicable
4.	परीक्षण सामग्री की पहचान /identification of Test item	One Sample of " SYLOCON" stated to be used as Nano Composite Plaster Additive received in a Plastic bottle.
5.	व्यावहृत की प्राणाली की पहचान /Method(s) used for Test	ASTM C 109-99, ASTM C 307-99, ASTM C 348-97 & ASTM C 1585-13
6.	नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant	Not Applicable
7.	पर्यावरण की स्थिति/Environmental Conditions	As per Specification.
8.	उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used	As per Specification.
9.	कैलिब्रेशन स्थल/Site of Calibration	--
10.	मापन का पता लगाने की क्षमता/Traceability of Measurement	--

Ajeet Kumar
OIC Testing/Calibration Civil
(Authorized Signatory)
Authorized on: 05 Sep, 2023 14:40 PM

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Section Report No. : 23CVD375N_1 Custom ASTM

PART C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
1	ASTM C 1585-04	Rate of Absorption of Water (single duration on the lines of ASTM C 1585:2004)	Rate of Absorption of Water (single duration on the lines of ASTM C 1585:2004)	-	-	-	Rate of absorption of water after 2 hrs, in mm (For blank sample) = 0.00000024 and Rate of absorption of water after 2 hrs, in mm (For sample prepared with Sylocon) = 0.00000015 and Percentage of decrease of Rate of absorption of water after 2 hrs with respect to blank sample is 38
2	ASTM C 307	Test for Tensile Strength (7 Day Tensile Strength), N/mm^2 [ASTM C 307]	Test for Tensile Strength (7 Day Tensile Strength), N/mm^2 [ASTM C 307]	-	-	-	Tensile Strength, in N/sq mm (For blank sample) = 2.2 and Tensile Strength, in N/sq mm (For sample prepared with Sylocon) = 1.8 and Percentage of decrease of Tensile strength with respect to blank sample is 18
3	ASTM C 348	Test for Flexural Strength (7 Day Flexural Strength), N/mm^2 [ASTM C 348]	Test for Flexural Strength (7 Day Flexural Strength), N/mm^2 [ASTM C 348]	-	-	-	Flexural Strength, in N/sq mm (For blank sample) = 2.2 and Flexural Strength, in N/sq mm (For sample prepared with Sylocon) = 3.4 and Percentage of increase of Flexural strength with respect to blank sample is 54
4	ASTM C 109	Test for Compressive Strength (7 Day Compressive Strength), N/mm^2 [ASTM C 109]	Test for Compressive Strength (7 Day Compressive Strength), N/mm^2	-	-	-	Compressive Strength, in N/sq mm (For blank sample) = 19.6 and Compressive Strength, in N/sq mm (For sample prepared with Sylocon) = 17.6 and Percentage of decrease of Compressive strength with respect to blank sample is 10

RAMEEZ ALI KHAN
Lab Sc. Testing/Calibration Civil
(Authorized Signatory)

Ajeet Kumar
OIC Testing/Calibration Civil
(Authorized Signatory)
Authorized on: 05 Sep, 2023 14:40 PM

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Section Certi fi cate No. : 23CVD375N_1 Custom ASTM

Part D.

REMARKS

In respect of the tests carried out the Sample shows Satisfactory result

Notes

A) Plaster Additive "SYLOCON" will show the following Advantages in plaster i) Water proof Plaster, ii) Crack resistant Plastered surface, iii) Rebound Loss will be Negligible, iv) Plastering Time will be minimum as stated. B) Recommended dose is one Liter in 50 kg of Cement

Ajeet Kumar
OIC Testing/Calibration Civil
(Authorized Signatory)
Authorized on: 05 Sep, 2023 14:40 PM

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राष्ट्रीय परीक्षण शाला (पू क्षे.)
National Test House (ER)
राष्ट्रीय परीक्षण शाला (पू क्षे.), ब्लॉक- सी.पी., सेक्टर- V, सॉल्ट लेक, कोलकाता प म बंगाल - 700091
Block-C.P, Sector-V, Salt Lake, Kolkata, West Bengal - 700091

PART A. PARTICULARS OF SAMPLE SUBMITTED

COMPLETE TEST CERTIFICATE

भाग' अ' जमा किये गये नमूने का विवरण

परीक्षण प्रमाणपत्र सं/Test Certificate No:	SRF Number:	जारी होने की तारीख/Date of issue	कोड सं/QR Code
NTH(ER)/CIV(G)/23/6333_1	NTH(ER)/CIV(G)/23/6333	09 Nov, 2023	: NTH230036866

a) जिसे जारी करना है/Issued To	:	ANN WORLD
b) पता/Address	:	244, SWAMI TAGESWARANANDA SARANI, SARADAPALLY, BHADRESWAR, BHADRESWAR, Hooghly, West Bengal, India - 712124
c) ग्राहक का संदर्भ सं एवं दिनांक/Customer's Ref. No.	:	Letter No. Nil dated 25.09.2023
d) नमूना मुहरबंद था या/Sample Sealed Status	:	Not Applicable
e) परीक्षण सामग्री का विवरण/Description of Test item	:	Sylocon- Nanocomposite Plaster Additive The Nano Composite Water Proof and Crack resistance Plaster Additive
f) नामपद्धति का विवरण/Description of Nomenclature	:	Sylocon- Nanocomposite Plaster Additive The Nano Composite Water Proof and Crack resistance Plaster Additive
g) नमूना का विशिष्टता (यदि हो) /Product Specification(if any)	:	IS 2645:2003 (RA 2017) - Integral Waterproofing Compounds for Cement Mortar and Concrete-Specification
h) नमूना प्राप्ति की तारीख/Date of Receipt of the Test item	:	27 Sep, 2023
i) कार्य सम्पादन की तारीख/Date(s)of Performance of Tests	:	From: 31 Oct, 2023 To: 03 Nov, 2023
j) Quantity	:	1.0 litre
k) Any other Information / Expiry Date, If any	:	AS PER LETTER
l) Section Code	:	23CHB7EDN (Pages:3), 23CVB5A1N (Pages:4)
m) Section Certificate No.	:	23CHB7EDN_1, 23CVB5A1N_1
n) Certificate Type	:	New
o) Reference Certificate No.	:	
p) Remarks	:	Please find the Report.

Projjwal Banerjee
OIC SAMPLE CELL
(Authorized Signatory)
Authorized on: 09 Nov, 2023 14:32 PM

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Section Certi fi cate No. : 23CVB5A1N_1 IS 2645:2003 (RA 2017)

PART B. SUPPLEMENTARY INFORMATION

1.	नमूना लेने की प्र िया का संदभ, जहां लागू हो। Reference to sampling procedure, wherever applicable.	Not Applicable
2.	परीक्षण सोट से संबं ध्त मापन एवं प रणाम प्र हेतु सहायक प्रलेख जैसे ग्राफ, ता लका, च और / अथवा फोटोग्राफ, यदि कोई हो। Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test certi fi cate, if any.	Not Applicable
3.	सम्बध्द मानक/ काय निदशो में निधा रत परीक्षण पद्ध तसे विचलन, यदि कोई हो। Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.	Not Applicable
4.	परीक्षण सामग्री की पहचान/Identi fi cation of Test item	One Sample of Concrete Plaster Additive (water Proo fi ng Compound) Stated as "SYLOCON" received in a Plastic bottle.
5.	व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test	IS 2645:2003
6.	नमूना प्र िया जहां प्रासंगिक हो/Sampling Procedure where relevant	Not Applicable
7.	पयावरण की स्थि त/Environmental Conditions	As per Speci fi cation
8.	उपयोगकिए जाने वाले प्रमुख मानक/ उपकरण/Major Standards/Equipments used	As per Speci fi cation
9.	कै लब्रेशन स्थल/Site of Calibration	--
10.	मापन का पता लगाने की क्षमता/Traceability of Measurement	--

Ajeet Kumar
OIC Testing/Calibration Civil
(Authorized Signatory)
Authorized on: 03 Nov, 2023 11:45 AM

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Section Report No. : 23CVB5A1N_1 IS 2645:2003 (RA 2017)

PART C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
1	3.3.b	Compressive strength-7 days	Compressive strength-7 days	-	-	-	33.0 MPa, 100% (without WPC), 30.0 MPa, 91% (with WPC) [shall Not less the minimum speci fied 7 days compressive strength of the grade of ordinary Portland cement used nor less than 90 ercent of the 7 days compressive strength of mortar cubes prepared with same cement and sand only.]
2	3.3.a	Compressive strength-3 days	Compressive strength-3 days	-	-	-	24 MPa, 100% (without WPC) 22.0 MPa, 92% (with WPC) [shall Not Not less than the minimum speci fied 3 days compressive strength of the grade of ordinary Portland cement used nor less than 90 percent of the 3 days compressive strength of mortar cubes prepared with same cement and sand only.]
3	3.2.b	Setting time-Final	Setting time-Final	-	-	-	170 min (without Water proo fing compound) 180 min (with Water proo fing compound) [shall Not more than 600 min nor the increase in the final setting time shall be more than 25 percent of the actual final setting time of cement used for testing.]
4	3.2.a.	Setting time -Initial	Setting time -Initial	-	-	-	90 min (without Water proo fing compound) 100 min (with Water proo fing compound)([shall Not less than 30 min nor the reduction in the initial setting time shall be more than 25 percent of the actual initial setting time of cement used for testing.]

SUJOY MANNA
Lab Sc. Testing/Calibration Civil
(Authorized Signatory)

Ajeet Kumar
OIC Testing/Calibration Civil
(Authorized Signatory)
Authorized on: 03 Nov, 2023 11:45 AM

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Section Certi fi cate No. : 23CVB5A1N_1 IS 2645:2003 (RA 2017)

Part D.

REMARKS

In respect of the tests carried out the Sample meet the requirements of IS 2645:2003 for INTEGRAL WATERPROOFING COMPOUNDS FOR CEMENTMORTAR ANDCONCRETE— SPECIFICATION (Second Revision) .

Notes

Recommended dose 1Litre in 50 kg of Cement.

Ajeet Kumar
OIC Testing/Calibration Civil
(Authorized Signatory)
Authorized on: 03 Nov, 2023 11:45 AM

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End of Report

Section Certi fi cate No. : 23CVB5A1N_1 IS 2645:2003 (RA 2017)

Part D.

REMARKS

In respect of the tests carried out the Sample meet the requirements of IS 2645:2003 for INTEGRAL WATERPROOFING COMPOUNDS FOR CEMENTMORTAR ANDCONCRETE— SPECIFICATION (Second Revision) .

Notes

Recommended dose 1Litre in 50 kg of Cement.

Ajeet Kumar
OIC Testing/Calibration Civil
(Authorized Signatory)
Authorized on: 03 Nov, 2023 11:45 AM

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राष्ट्रीय परीक्षण शाला (पू क्षे.)
National Test House (ER)
राष्ट्रीय परीक्षण शाला (पू क्षे.), ब्लॉक- सी.पी., सेक्टर- V, सॉल्ट लेक, कोलकाता, प म बंगाल - 700091
Block-C.P, Sector-V, Salt Lake, Kolkata, West Bengal - 700091

Section Certi fi cate No. : 23CHB7EDN_1

IS 2645:2003 (RA 2017)

PART B. SUPPLEMENTARY INFORMATION

1.	नमूना लेने की प्र िया का संदभ, जहां लागू हो। Reference to sampling procedure, wherever applicable.	Not Applicable
2.	परीक्षण सोट से संबं धत मापन एवं प रणाम प्र हेतु सहायक प्रलेख जैसे ग्राफ, ता लका, च और / अथवा फोटोग्राफ , यदि कोई हो। Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test certi fi cate, if any.	Not Applicable
3.	सम्बध्द मानक/ काय निदशो में निधा रत परीक्षण पद्ध तसे विचलन , यदि कोई हो। Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.	Not Applicable
4.	परीक्षण सामग्री की पहचान/Identi fi cation of Test item	Sylocon- Nanocomposite Plaster Additive The Nano Composite Water Proof and Crack resistance Plaster Additive.
5.	व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test	IS:6925
6.	नमूना प्र िया जहां प्रासंगिक हो/Sampling Procedure where relevant	NA
7.	प्यावरण की स्थि त/Environmental Conditions	-
8.	उपयोगकिए जाने वाले प्रमुख मानक/ उपकरण/Major Standards/Equipments used	NA
9.	कै लब्रेशन स्थल/Site of Calibration	NA
10.	मापन का पता लगाने की क्षमता/Traceability of Measurement	-

Buddh PRAKASH
OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
(Authorized Signatory)
Authorized on: 03 Nov, 2023 17:21 PM

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Section Report No. : 23CHB7EDN_1 IS 2645:2003 (RA 2017)

PART C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
1	3.4	Chloride content	Chloride content	-	2.0	Percent by mass	0.033 (Percent by mass)

LATA SINHA
Lab Sc. Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
(Authorized Signatory)

Buddh PRAKASH
OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
(Authorized Signatory)
Authorized on: 03 Nov, 2023 17:21 PM

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Section Certi fi cate No. : 23CHB7EDN_1

IS 2645:2003 (RA 2017)

Part D.

REMARKS

In respect of tested parameters the sample meets the chemical requirements as per IS:2645-2003 for Chloride Test.

Notes

-

Buddh PRAKASH
OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
(Authorized Signatory)
Authorized on: 03 Nov, 2023 17:21 PM

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राष्ट्रीय परीक्षण शाला (पू क्षे.)
National Test House (ER)
राष्ट्रीय परीक्षण शाला (पू क्षे.), ब्लॉक- सी.पी., सेक्टर- V, सॉल्ट लेक, कोलकाता, प म बंगाल - 700091
Block-C.P, Sector-V, Salt Lake, Kolkata, West Bengal - 700091

Section Certi fi cate No. : 23CV8DACN_1 Custom ASTM

PART B. SUPPLEMENTARY INFORMATION

1.	नमूना लेने की प्र ि या का संदभ, जहां लागू हो। Reference to sampling procedure, wherever applicable.	Not Applicable
2.	परीक्षण सोट से संबं ध त मापन एवं प रणाम प्र ि हेतु सहायक प्रलेख जैसे ग्राफ, ता लका, च और / अथवा फोटोग्राफ , यदि कोई हो। Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test certi fi cate, if any.	Not Applicable
3.	सम्बध्द मानक/ काय निदशो में निधा रत परीक्षण पद्ध तसे विचलन , यदि कोई हो। Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.	Not Applicable
4.	परीक्षण सामग्री की पहचान/identi fi cation of Test item	One Sample of "SYLOCON" stated to be used as Nano Composite Plaster Additive received in a Plastic bottle.
5.	व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test	ASTM C 109-99, ASTM C 307-99, ASTM C 348-97 & ASTM C 1585-13
6.	नमूना प्र ि या जहां प्रासंगिक हो/Sampling Procedure where relevant	Not Applicable
7.	पयावरण की स्थि त/Environmental Conditions	As per Speci fi cation
8.	उपयोगकिए जाने वाले प्रमुख मानक/ उपकरण/Major Standards/Equipments used	As per Speci fi cation
9.	कै लब्रेशन स्थल/Site of Calibration	--
10.	मापन का पता लगाने की क्षमता/Traceability of Measurement	--

Ajeet Kumar
OIC Testing/Calibration Civil
(Authorized Signatory)
Authorized on: 09 Nov, 2023 13:40 PM

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Section Report No. : 23CV8DACN_1 Custom ASTM

PART C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
1	ASTM C 1585-04	Rate of Absorption of Water (single duration on the lines of ASTM C 1585:2004)	Rate of Absorption of Water (single duration on the lines of ASTM C 1585:2004)	-	-	-	Average rate of absorption of water after 2 hrs, in mm (For blank sample) = 0.00000018 and average rate of absorption of water after 2 hrs, in mm (For sample prepared with Sylocon) = 0.00000010 and percentage of decrease of rate of absorption of water after 2 hrs with respect to blank sample is 44
2	ASTM C 307	Test for Tensile Strength (28 Day Tensile Strength), N/ mm^2 [ASTM C 307]	Test for Tensile Strength (28 Day Tensile Strength), N/ mm^2 [ASTM C 307]	-	-	-	Tensile Strength, in N/sq mm (For blank sample) = 2.4 and Tensile Strength, in N/sq mm (For sample prepared with Sylocon) = 1.7 and Percentage of decrease of Tensile strength with respect to blank sample is 29
3	ASTM C 348	Test for Flexural Strength (28 Day Flexural Strength), N/ mm^2 [ASTM C 348]	Test for Flexural Strength (28 Day Flexural Strength), N/ mm^2 [ASTM C 348]	-	-	-	Average flexural Strength, in N/sq mm (For blank sample) = 6.2 and average flexural Strength, in N/sq mm (For sample prepared with Sylocon) = 4.6 and Percentage of decrease of flexural strength with respect to blank sample is 26
4	ASTM C 109	Test for Compressive Strength (28 Day Compressive Strength), N/mm^2 [ASTM C 109]	Test for Compressive Strength (28 Day Compressive Strength), N/mm^2 [ASTM C 109]	-	-	-	Average compressive Strength, in N/sq mm (For blank sample) = 16.0 and average compressive Strength, in N/sq mm (For sample prepared with Sylocon) = 19.5 and Percentage of increase of compressive strength with respect to blank sample is 22

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PART C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
1	ASTM C 1585-04	Rate of Absorption of Water (single duration on the lines of ASTM C 1585:2004)	Rate of Absorption of Water (single duration on the lines of ASTM C 1585:2004)	-	-	-	Average rate of absorption of water after 2 hrs, in mm (For blank sample) = 0.00000018 and average rate of absorption of water after 2 hrs, in mm (For sample prepared with Sylocon) = 0.00000010 and percentage of decrease of rate of absorption of water after 2 hrs with respect to blank sample is 44
2	ASTM C 307	Test for Tensile Strength (28 Day Tensile Strength), N/ mm^2 [ASTM C 307]	Test for Tensile Strength (28 Day Tensile Strength), N/ mm^2 [ASTM C 307]	-	-	-	Tensile Strength, in N/sq mm (For blank sample) = 2.4 and Tensile Strength, in N/sq mm (For sample prepared with Sylocon) = 1.7 and Percentage of decrease of Tensile strength with respect to blank sample is 29
3	ASTM C 348	Test for Flexural Strength (28 Day Flexural Strength), N/ mm^2 [ASTM C 348]	Test for Flexural Strength (28 Day Flexural Strength), N/ mm^2 [ASTM C 348]	-	-	-	Average flexural Strength, in N/sq mm (For blank sample) = 6.2 and average flexural Strength, in N/sq mm (For sample prepared with Sylocon) = 4.6 and Percentage of decrease of flexural strength with respect to blank sample is 26
4	ASTM C 109	Test for Compressive Strength (28 Day Compressive Strength), N/mm^2 [ASTM C 109]	Test for Compressive Strength (28 Day Compressive Strength), N/mm^2 [ASTM C 109]	-	-	-	Average compressive Strength, in N/sq mm (For blank sample) = 16.0 and average compressive Strength, in N/sq mm (For sample prepared with Sylocon) = 19.5 and Percentage of increase of compressive strength with respect to blank sample is 22

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Part D.

REMARKS

In respect of tests carried out the Sample shows satisfactory result.

Notes

A) Plaster Additive "SYLOCON" will show the following advantages in Plaster i) Chloride ingression proof & Water proof Plaster, ii) Crack resistant Plastered surface, iii) Rebound loss will be negligible, iv) Plastering time will be minimum as stated. B) Recommended dose one Liter in 50 kg of Cement.

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End of Report