CHEMA FOAM

BUILD YOUR DREAM

CHEMA BOND SBR A+

Chema **Bond SBR A+** is an Water-based styrene-butadiene rubber bonding agent, Water Resistant and modifying admixture.



Product Data

Appearance	Milky-White liquid
Packaging	5 Kg, 20 Kg Pails, 200 Kg barrel drum. 1000 Kg tank.
Shelf Life	Unopened packs can be stored for 12 months.
Storage	12 months under cover, out of direct sunlight and protect from extremes of temperature.

Technical Data (at 25°C)

Description	Test standards	Unit	Values	Tolerance
Density	-	kg/liter	1	±0.01
Compressive Strength	ASTM C 109	N/mm^2	>25	-
Bond Strength	ASTM C 1042	N/mm^2	>2	-
Solid content	-	%	30	±1
pH value	-	-	7	±1

CHEMA BOND SBR A+

CHEMA GROUP | 19211

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AREAS TO USE

- **Bonding agent:**
  - Bond new concrete to old.
  - Improve bonding of plasters, patching compounds, renders and mortars, etc.
- **Mortar admixture:**
  - Waterproof mortars, Flexible tile adhesive mortars and Concrete repair mortars.

ADVANTAGES

- **Good** bonding properties to concrete.
- Improves waterproofing, flexibility.
- Suitable for internal and external applications.
- Non-toxic. Ideal for use in contact with potable water.
- Reduces shrinkage.

MIXING RATIO

Bonding Coat:

Chema Bond SBR A+	Water	Cement	Sand	Bonding Coat
10 Kg	30 liters	50 kg	60 kg	

Modified Mortar:

Chema Bond SBR A+	Water	Cement	Sand	Modified Mortar
5 Kg	25 liters	50 kg	150 kg	

INSTALLATION



NOTES :

- Coverage rate takes no account of wastage and may vary according to the type of surface involved.
- DO NOT apply repair mortar on dry bonding mortar.
- If bonding mortar coat dries before applying repair mortar, roughen dry mortar and then applying a further coat of bonding mortar.
- Mechanically mix at low speed to avoid trapping air.
- Do not overmix or mix at a high speed.
- Avoid using excessive water.

OFFICE
11Obour Buildings - Salah Salem
Nasr City Cairo - Egypt.

FACTORY
10th of Ramadan
B4 industrial zone

NATIONAL RESEARCH CENTRE
TAHRIR St. DOKKI, CAIRO, EGYPT
Central Unit For Analysis And
Scientifical Services (CUASS)
Material Test Lab.

المركز القومى للبحوث
الدقى . القاهرة . جمهورية مصر العربية
وحدة التحاليل و الخدمات العلمية المركزية
معمل اختبار المواد

Test Report

Report No.	***MO1 0987 02 2023***
Client	***CHEMA FOAM CO.***
Authority & date	*Request Orders 6/2/2023*
Items Tested	***CHEMA bond***
Results	*The detailed test results are given on the following pages of this report (4 pages) .*
Report Typist	**** Mis. Naglaa Mohamed-Sara Abdel Reheam Noha Samir***
Test carried by	**** Mis . Fatma El Zahraa Fikry***
	**** H.Eng. Ahmed Said***
	**** Chem. Amr El Shafey***
	**** Dr. Abou El Ftouh Abd El Hakem***
Authorized by	***Prof. Dr. Mostafa Zaki Mostafa***
	**** The Supervisor of ceramics, Polymer and Solid Matter Department.***
	**** Management Representative and Quality Assurance Manager.***
Issue date	*15/3/2023*
Condition of Test & Issue	*The test speciemen was conditioned at 23 °C with a humidity of 60 % and the needed calibrations as well as balancing of the all used machines were always done .*

شارع التحرير - الدقى - القاهرة
مباشر ٣٣٣٨٧٨٠٣ فاكس
داخلى ١٨١٠ ١٤٢٤
٣٣٣٧١٣٦٢ - ٣٣٣٧١٦١٥
٣٣٣٥٥١٩٢ - ٣٧٦٠٧٥٤١
E-mail : nrc1302a@yahoo.com

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To / CHEMA FOAM CO.

Dear Sir.,

With correspondence to your request dated 6/2/2023 concerning the testing sample of CHEMA bond , We would like to inform you that the all following needed tests were carried out which namely:

1- Compressive strength test on concrete + chema bond after 28 days according to ASTM C109

2- Flexural strength test on concrete + chema bond after 28 days according to ASTM C580

3- Bond strength test to concrete (Slant-shear) (dry) by using CHEMA bond after 28 days according to ASTM C1042

We would like to inform you that the needed test was carried out taking into consideration the following conditions :

1- In all mechanical properties GALDABINI – QUASAR 600 – Made In Italy Universal Testing Machine was used This type has a self calibration , zero adjusting and automatic balance , which are done daily before testing or during testing this testing instrument is accompanied by a highly reliable system for evaluating the mechanical properties .

2-Measuring drum of sensitivity $\pm$ 0.01mm was used for dimensions evaluation.

3- On heating a Memmert West Germany oven was used .

4- Weighing Balance with tolerance + 0.0001 g was used in determining the weights .

5-Water Permeability tester model 55CO24613Controls made in Italy

6- All used Machineries and apparatuses were calibrated periodically

The following tables give the obtained results representing the sample delivered from your company .

2023

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داخلى ١٨١٠
فاكس ١٤٢٤
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Test results on a sample of CHEMA bond

Delivered from CHEMA FOAM CO.

1- Compressive strength test on concrete + chema bond after 28 days according to ASTM C109

No.	*Control (N/mm2)*	*Concrete + chema bond (N/mm2)*
1	*23.11*	*37.14*
2	*23.51*	*39.53*
3	*21.73*	*36.29*
4	*21.92*	*35.26*
5	*22.81*	*34.93*
Mean	*22.62*	*36.63*

2- Flexural strength test on concrete + chema bond after 28 days according to ASTM C580

No.	*Control (N/mm2)*	*Concrete + chema bond (N/mm2)*
1	*7.73*	*11.18*
2	*6.92*	*11.65*
3	*6.99*	*11.29*
4	*7.07*	*11.33*
5	*7.13*	*11.19*
Mean	*7.17*	*11.33*

3- Bond strength test to concrete (Slant-shear) (dry) by using CHEMA bond after 28 days according to ASTM C1042

No.	*Bond strength (N/mm2)*	*The mean (N/mm2)*
1	*3.31*	*3.21*
2	*3.09*	
5	*3.23*	

المركز القومى للبحوث
وحدة التحاليل والخدمات العلمية المركزية
3 / 2023

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This report was given to you representing only the results for the testing sample of CHEMA bond , Delivered from CHEMA FOAM CO., These results and conclusions were given to you without any responsibility on ***THE CERAMICS, POLYMERS AND SOLID MATTER DEP.*** *of* ***THE MATERIAL TEST LAB*** *in* ***THE NATIONAL RESEARCH CENTRE*** *for pick up the samples to be tested .*

Head of Director of The Board of Central Depertment for Scientifical Analysis and Tests

&

SUPERVISOR OF CERAMICS, POLYMER AND SOLID MATTER DEPARTMENT

PROF.DR. MOSTAFA ZAKI MOSTAFA

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