



**INTRODUCING AXION
INNOVATIVE PRODUCTS
FOR ROAD AND BUILDING
CONSTRUCTION**

ABOUT US

Axion Africa, a subsidiary of Axion Canada is the leader in the development, distribution and application of organic liquid monomer formulations for the global road and building construction industries.

Axion Technologies' products, initially developed by the U.S. military for swiftly deploying airstrips during the Gulf War, have transitioned to commercial use, maintaining their military-grade standards



25yrs

We have been in operation for 25 years, and over 20 years in Africa.



We have presence in over 75 countries in the world.

99%

In Nigeria, our products have been tested and approved by local and federal authorities, and we have all the required certifications for building and road construction.

Our Vision & Mission

Our vision is to be a Leading, Cutting-edge and Innovative Engineering Company, supplying the building/Civil Engineering industry (governments, real estate developers, oil & gas sector) with efficient and cost-effective construction materials for buildings and roads.

Our Mission is to continuously provide our customers with high quality, cost-effective, efficient and environmental-friendly products to solve problems facing the global building and construction industry.



Our Products



- AXION STONE BASE STABILIZER (*liquid cement*)
- AXION BITUMEN BOOSTER (PMB)
- AXION BASE STABILIZER (*SBS*)
- AXION TUFFCRETE POLYMER
- AXION TOTALCRETE POLYMER (*high-range super plasticizer*)
- AXION TOTALCRETE POLYMER (*liquid cement*)
- AXION TUFFCRETE CEMENT
- AXION TOTAL-CRETE CEMENT
- AXION HYDROSHIELD POLY BOND
- AXION HYDROSHIELD DIRECT SCREED BOND/PUTTY
- AXTRA QUICK FIX ASPHALTIC CONCRETE LIQUID BINDER (*cold asphalt*)
- AXION POLYCOAT (*liquid marble*)
- AXION POLYCOLOUR (*marbluxe paint*)



WE PROVIDE ENVIRONMENTALLY FRIENDLY CONSTRUCTION TECHNOLOGIES

- Road Base Stabilizer and Polymer Modified Bitumen.
- 100% Waterproof Concrete Technology.
- Engineered Precast and Specialized Concrete Products.
- Our products are made of high quality innovative road and building construction materials which ensure durable and cost effective construction.



Axion Stone Base Stabilizer (*liquid cement*)

Axion Stone Base Stabilizer (liquid cement) is a revolutionary technology designed for stabilizing stone bases (e.g., Stone and sand). This innovative product serves as a superior binder for stabilizing the sub-base of superhighways, providing 100% waterproofing and high CBR for optimal strength and durability.

PRODUCT FEATURES/ADVANTAGES:

- Strengthens and improves the natural soil enabling it to achieve higher load bearing capacity
- Eliminates the cost of removing and replacing the topsoil .
- Eliminates the use of expensive aggregate plus the cost of compacting it.
- Simply stabilizes the natural soil to achieve CBR levels of up to 200%



Axion Bitumen Booster Refiner (PMB)

Bitumen is the preferred glue that holds aggregate together in road construction, the higher the quality of the glue, the greater adhesiveness. Axion Bitumen Booster (PMB) increases the bitumen by 30% and the asphalt by 20% while stabilizing and improving the elasticity from 6% to 79% over a wide range of temperature that allows the asphalt to withstand temperatures ranging between -22°C to $+82^{\circ}\text{C}$. The benefit of this is that the thickness of Asphaltic binder course can be reduced from the standard 6cm to 3cm, producing the same strength and yielding cost savings in the construction.

PRODUCT FEATURES/ ADVANTAGES:

- Eliminates Hair Line Cracks
- Increases Bitumen Volume by over 30%
- 350% Increase in The Asphalt Layers' Life Expectancy
- Solution to Rutting problem as it reduces it by up to 84.8%
- Water Resistant
- Reduces Execution Time
- 100°C Effective Range



Axion Solid Base Stabilizer (SBS)

This is a powerful molecular binding agent used in soil stabilization and earth-work installation. It does not require coarse aggregate as it merely strengthens and improves the natural soil enabling it to achieve load bearing capacities that meet and exceeds international compaction requirements. The Axion Solid Base Stabilizer results in approximately 60% cost savings in construction and maintenance costs.

PRODUCT FEATURES/ ADVANTAGES:

- Strengthens and improves the natural soil enabling it to achieve higher load bearing capacity
- Eliminates the cost of removing and replacing the topsoil .
- Eliminates the use of expensive aggregate plus the cost of compacting it.
- Simply stabilizes the natural soil to achieve CBR levels of up to 200%



Axion Tuffcrete Polymer

Axion Tuffcrete polymer (Plastercizer co-polymer) is a chemical specifically developed for polymer modification of Portland cement and other hydraulic cement compositions. Cementitious products modified with Axion TuffCrete polymer show improved bonding strength to a variety of substrates, including all concrete works. In addition, this product improves the flexural and tensile strengths of hydraulic cement concretes. This multi- component polymer resists saponification and demonstrates good exterior durability with resistance to UV light and moisture. Thereby, protecting steel reinforcement from oxidation and corrosion.

The Totalcrete Polymer is designed to neutralise the salinity in seawater. It has also been proven to be one of the best products for lightweight concrete design.

PRODUCT FEATURES/ ADVANTAGES:

- Concrete Strength Enhancement
- 100% waterproof and damp-resistant
- Improved flexural and tensile strength
- Chemical resistant
- Fire-resistant properties
- Corrosion protection for steel reinforcement
- Neutralizes Salinity in Sea Water (Salt Resistant)



Axion Totalcrete Polymer *(high-range super plasticizer)*

This is a 4-in-one chemical and water-resistant formulation that offers high tensile strength, with great adhesion to essential construction materials (Steel, Traditional Concrete etc.) yielding roads with a load-bearing capacity of 4,000 tons per square meter. Axion Totalcrete polymer provides cost saving of about 30% compared to conventional concrete and is 100% waterproof, fireproof, anti-fungal, damp-proof and prevents capillary actions. It can also be used for the enhancement of concrete in construction of concrete roads, swimming pools, flooring, water treatment Tanks, sewage tanks, oil and gas pipeline and gas stations. Overall Axion Totalcrete Polymer has proven to be an all-in-one stop shop for all concrete application. It can be used as a retarder, plasticizer, and a strength enhancer for concrete.



Axion Totalcrete Polymer *(high-range super plasticizer)*

PRODUCT USES:

- Used as a concrete admixture for waterproofing and improving the tensile strength of concrete
- Casting of slabs, roof decks, concrete floors, swimming pools, water treatment tanks, sewage tanks, etc.
- General concrete works
- Plastering works
- Crack resistant concrete
- Best for ready mix concrete
- Ability to travel with concrete

PRODUCT FEATURES/ ADVANTAGES:

- Waterproof & Fireproof
- Longer Life Expectancy
- Neutralizes Salinity in Sea Water (Salt Resistant)
- More Load Bearing Capacity
- Save on Steel Reinforcement Costs
- Asphalt Layers Can Be Added To It
- Not Affected By Oil And Fuel Spillage
- Repair Old Damaged Concrete
- Flexibility



Axion Totalcrete Polymer (*Liquid Cement*)

TOTALCRETE POLYMER (Liquid Cement) is a high-performance super plasticizer formulated from selected polymers specially designed to enable the water content of the concrete to perform more effectively. This effect can be used in high-strength concrete mixes to improve workability, increase ultimate strengths or facilitate a reduction in the cement content while sustaining and improving mix properties.

PRODUCT USES:

- Used as a concrete admixture for waterproofing and improving the tensile strength of concrete
- Casting of slabs, roof decks, concrete floors, swimming pools, water treatment tanks, sewage tanks, etc.
- Improvement of all concrete works
- 100% waterproof Plastering , Screed-Plastering, Block moulding and Tiling works
- Crack resistant concrete

PRODUCT FEATURES/ ADVANTAGES:

- Allows for high-strength production without excessive cement contents.
- Suitable for plastering, tiling and concrete works
- Improved workability reduces placing and compaction problems.
- Cement saving without affecting strength.
- Accelerates cement setting time
- Minimizing segregation and bleeding problems by improving cohesion.
- More durable concrete as a result of reduction in permeability and lower water-to-cement ratio.



AXTRA QUICK FIX

Asphaltic Concrete Liquid Binder

(Cold Asphalt)

Axion introduces Axtra Quick Fix Asphaltic Concrete Liquid Binder (Cold Asphalt), a revolutionary technology designed for the construction of long-lasting and stable roads. This innovative product is used as a super binder in making cold asphalt for patching of pot holes. It can also be used in stabilization of all types of soil.

PRODUCT FEATURES/ ADVANTAGES:

- It does not require construction professionals or expensive contractors to implement.
- Creates job opportunities for youths just after a day's training.
- It does not require any special material or design to make an asphaltic concrete Road.
- Must not use expensive construction equipment (asphalt Plant) for mixing.
- Hot Asphalts are quite hazardous and requires lots of workers and machineries to implement.
- It is cost effective



Axion Hydroshield Poly Bond

Axion Hydroshield Poly Bond is a high-performance polymer-modified screed adhesive and waterproofing compound developed for use in combination with any conventional screed material (Screeding Paint or Cement). It is formulated to produce 100% waterproof, damp-resistant, and weather-resistant screeding for interior and exterior applications.

PRODUCT FEATURES/ ADVANTAGES:

- 100% Waterproof, Damp-proof & Anti-Fungi
- Longer Life Expectancy
- Can be combined with any conventional screeding materials (screeding paint and cement)
- Reduces cracking and shrinkage
- Excellent adhesion
- Saves cost

RECOMMENDED USES:

- Interior and exterior wall screeding and rendering
- Waterproofing in wet areas (bathrooms, kitchens, balconies, terraces)
- As a bonding agent for cement-based screeds



Total-Crete /Tuffcrete Cement & Axion Hydroshield Direct Screed Bond/Putty Combo

This product combination is a chemical formulation specially designed for tiling and screeding. It is 100% water proof and does not require the addition of any other product (Tile Gum, Cement or Top Bond) for its application

Axion Total-crete/Tuffcrete cement & Axion Hydroshield Direct Screed Bond/Putty combo can also be used for All-in-one Screed Plastering, Water Proofing, Antifungal, Crack Proof, Fireproof, Foundation protection (DPC), Swimming Pools, Outside Decks, Tile Gum, Grouting, Damp Treatments, etc.

PRODUCT FEATURES/ ADVANTAGES:

- 100% Waterproof, Damp-proof & Anti-Fungi
- Longer Life Expectancy
- Does not require any other products for its application (Tile Gum, Cement, or Top Bond)
- Covers an area of over 45-50 square meters
- Saves cost



Exterior Screeding



Interior Screeding

Axion Polycoat (*liquid marble*)

Axion Polycoat is your all in one 100% Damp & Waterproof Coating Mortar application with super high tensile and compressive strength. It attaches and grips firmly on any material inclusive steels, wood, concrete etc. and protects it from corrosion, rust, oxidation, water and dampness.

Axion Polycoat, is widely used in North America in several coating application industries as a one stop solution for all coating applications. It's also used in decorative floor coating, warehouses, exterior and interior garage floor etc. currently Axion Polycoat has been proven to be the best coating application in Polystyrene industries as it provides solid structures for the polystyrene panels without the need to plaster and then mortar. Once coated with Poly coat, it provides same strength just like a precast concrete slab and yet cost effective making the best for light weight Slab for Decks, Ceiling, Demarcation Walls, Parapets etc.

PRODUCT FEATURES/ ADVANTAGES:

- Cost Effective
- Anti Corrosion and Erosion
- Damp Resistant and Water Proof
- Crack Resistant
- Light Weight Coating
- Anti-Fungal
- High Abrasion



Axion Polycoat (*liquid marble*)

PRODUCT USES:

- Coloured Floor Coat Indoor/Outdoor
- Exposed Roof Decks
- Warehouse Floors.
- Balcony
- Drive Ways
- Retaining Walls
- Crack Treatments
- Pile Cap Coating (Bridges)
- Steel Coating
- Gypsum board coating against water damage
- Polystyrene Coating etc.

AVAILABLE COLOURS:

- White
- Off-White
- White



Axion Polycolour (Marbluxe Paint)

Axion Polycolour (Marbluxe Paint) is a premium decorative finishing paint developed specifically for high-end wall and floor coating applications. It is engineered to deliver a luxurious marble-like appearance while providing outstanding durability and surface protection.

Axion Polycolour is available in a wide range of vibrant and customized colours, allowing for creative design flexibility across residential, commercial, and industrial spaces. Axion Polycolour (Marbluxe Paint) is 100% waterproof, temperature-resistant, and formulated to withstand varying environmental conditions without peeling, cracking, or fading.

PRODUCT FEATURES/ ADVANTAGES:

- 100% waterproof
- Temperature resistant
- High durability and abrasion resistance
- Excellent adhesion to prepared substrates
- Smooth, glossy, and easy-to-clean surface
- Resistant to peeling, cracking, and fading

AVAILABLE COLOURS:

- Brown
- Black
- Blue
- Red
- Green
- Yellow
- Beige



Solid Base Stabilizer (SBS) Test Result



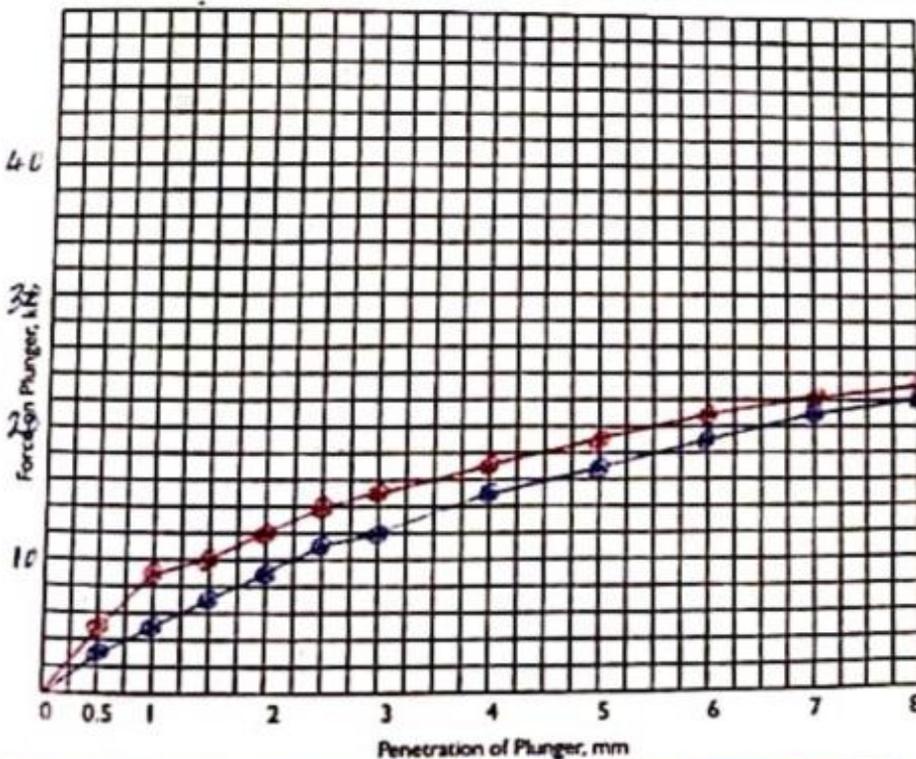
CALIFORNIA BEARING RATIO TEST

Project: Watermark Site Location: _____
 Character: _____ Boring No. _____ Sample No. _____
 Description of Soil: Stabilized material with Axion Stabilizer
 Test performed by: _____ Date of Test: 31-5-2013

TEST DATA

Density Determination		Moisture Content		Proctor Information	
Mold No.	11	Can No.	47	69	Method
Wt. of Wet Soil + mould (g)	12507	Wt. of Soil + Can	95.1	95.4	OHC
Wt. of Mould (g)	5686	Wt. of Dry Soil + Can	86.8	87.1	HDD
Wt. of wet sample (g)	4821	Wt. of Water	8.3	8.3	
Volume of Mould (cm ³)	2302	Wt. of Can	36.1	36.3	PRF
Wet Density (g/cm ³)	2.09	Wt. of Dry sample	50.8	50.8	Piston Area
Moisture Content %	16.3	Moisture content	16.3	16.3	19.4
Dry Density (g/dm ³)	1.80				

Penetration mm.		0.5	1	1.5	2	2.5	3	4	5	6	7	8
Top	Dial Reading	13.9	22.4	31.2	40.0	49.9	59.6	66.1	76.4	84.6	92.5	99.6
	Force KN	5.00	4.97	6.53	8.55	11.1	12.3	14.7	17.0	18.8	20.9	22.1
Bottom	Dial Reading	21.3	38.4	45.6	59.0	63.5	68.9	77.4	85.5	92.4	98.0	105.0
	Force KN	6.79	5.52	10.1	12.2	14.1	15.3	17.2	19.0	20.5	21.9	23.3



Expansion After Soak	
Initial Reading	
Final Reading	
Expansion	
Expansion After Soak %	
Period of Soaking	
Results	
Moist. Cont. before Soaking %	
Moist. Cont. after Soaking %	
Dry Density g/cm ³	
Expansion after Soaking %	T.P
C.B.R @ 2.5 mm	93.8
C.B.R @ 50 mm	85.2
Ave C.B.R	106.5

Date: 5/13
Tested by: ADD
Checked by: _____
Client Rep. _____

Solid Base Stabilizer (SBS) Test Result by Dantata & Sawoe Construction Company

TYPE OF MATERIAL	SAMPLED AT	LL	PI	SIEVE 200	Soil Class	CBR UNSOAKED		% Increased	CBR UNSOAKED AFTER 7 DAYS (with Stabiliser)
						WITHOUT STABILISER	WITH STABILISER		
BASE COURSE	BORROW PIT	28	6.6	18	A-2	88.7	104.5	15.8	
FILL MATERIAL	SITE	30.2	11.7	30.6	A-2	11	42.1	31.1	109.7

- Two types of materials were tested to determine the effect of Base stabiliser in CBR. One is base and the other is fill quality.
- CBR of these materials were determined in Unsoaked condition since the intended usage of the materials are for Base layer.
- As shown in the table above, the CBR value of the base material without Stabiliser already met the required CBR value of base course which is min of 80% whilst the Fill material has 11% only.
- After treating both materials with Base Stabiliser with a dosage of 1 liters Stabiliser to 300 liters of water, CBR value increased by 16% to 31%.
- Manufacturer gave instruction that material treated with stabiliser must be tested for CBR at 28 days in unsoaked condition which we deemed too long that's why we come up testing it after 7 days

Note:

- 1.) No doubt that there is positive effect in CBR after treating the materials with Base stabiliser, even achieving more than 80% CBR after 7 days in unsoaked condition. However, testing CBR after 7 days in unsoaked condition is not part of Nigerian Specification unless it is required by Engrs or recommended by the manufacturer with written approval of Engr representative



 D & S Kano
 Quality Control Pass

Axion Bitumen Booster (ABB) Test Result

CMT ENGINEERING
LABORATORIES

Construction * Materials * Technologies
Geotechnical, Environmental, & Materials Engineering/Testing/Research

CMT ID: AE 448

Patrick O'keke, Esq.
Axion Global Engineering Ltd/
Federal ministry of works,
Mabuchi, Abuja. Nigeria

Project Info: Rheological property determination of different blends of PG 64-22 with given polymers

Gentlemen,

CMT Engineering Laboratories was requested to perform a binder design utilizing Axion Bitumen Booster (P) and (L). The intent was to design a binder with a top end PG grading on 64 minimum, an elastic recovery of 50% minimum and to pass a Hamburg Rutting test on 10mm maximum. An unmodified binder was selected from a local supplier to begin this process, please reference the test data for the material performance.

Test Required:

1. Prepare Polymer Modified Blends of Unmodified PG 64-22 with Axion Bitumen Booster (P) and (L) in following proportions;
 - A. PG 64-22 + 3% Axion Bitumen Booster (P)
 - B. PG 64-22 + 3% Axion Bitumen Booster (P) + 0.25% Axion Bitumen Booster (L)
 - C. PG 64-22 + 3% Axion Bitumen Booster (P) + 0.50% Axion Bitumen Booster (L)
2. Perform DSR Original (AASHTO T 315) on PG 64-22 and three Polymer modified blends
3. Perform Elastic Recovery (AASHTO T301) on RTFO Aged Residues (AASHTO T 240)

TEST	Temp	Method	SPECIFICATION	REPORT	RESULT
<u>ORIGINAL BINDER</u>					
<u>BASE ASPHALT PG 64-22</u>					
Dynamic Shear, $G^*/\sin \delta$, 10 rad/sec	64 ^o C	T315	Min. 1.0 kPa	1.25	Pass
Dynamic Shear, $G^*/\sin \delta$, 10 rad/sec	70 ^o C	T315	Min. 1.0 kPa	0.592	Fail
Tc (High) Original = 65.8^o C					
<u>PG 64-22 + 3% AXION BITUMEN BOOSTER (P)</u>					
Dynamic Shear, $G^*/\sin \delta$, 10 rad/sec	64 ^o C	T315	Min. 1.0 kPa	3.17	Pass
Dynamic Shear, $G^*/\sin \delta$, 10 rad/sec	70 ^o C	T315	Min. 1.0 kPa	1.64	Pass
Dynamic Shear, $G^*/\sin \delta$, 10 rad/sec	76 ^o C	T315	Min. 1.0 kPa	0.887	Fail
Tc (High) Original = 74.8^o C					
<u>PG 64-22 + 3% AXION BITUMEN BOOSTER (P) + 0.25% AXION BITUMEN BOOSTER (L)</u>					

Dynamic Shear, $G^*/\sin \delta$, 10 rad/sec	64 ⁰ C	T315	Min. 1.0 kPa	3.89	Pass
Dynamic Shear, $G^*/\sin \delta$, 10 rad/sec	70 ⁰ C	T315	Min. 1.0 kPa	2.09	Pass
Dynamic Shear, $G^*/\sin \delta$, 10 rad/sec	76 ⁰ C	T315	Min. 1.0 kPa	1.16	Pass
Dynamic Shear, $G^*/\sin \delta$, 10 rad/sec	82 ⁰ C	T315	Min. 1.0 kPa	0.676	Fail

Tc (High) Original = 77.7⁰ C

PG 64-22 + 3% AXION BITUMEN BOOSTER (P) + 0.5% AXION BITUMEN BOOSTER (L)

Dynamic Shear, $G^*/\sin \delta$, 10 rad/sec	64 ⁰ C	T315	Min. 1.0 kPa	4.77	Pass
Dynamic Shear, $G^*/\sin \delta$, 10 rad/sec	70 ⁰ C	T315	Min. 1.0 kPa	2.60	Pass
Dynamic Shear, $G^*/\sin \delta$, 10 rad/sec	76 ⁰ C	T315	Min. 1.0 kPa	1.46	Pass
Dynamic Shear, $G^*/\sin \delta$, 10 rad/sec	82 ⁰ C	T315	Min. 1.0 kPa	0.843	Fail

Tc (High) Original = 80.1⁰ C

ROLLING THIN FILM OVEN(T240)

BASE ASPHALT PG 64-22

Elastic Recovery, %	25 ⁰ C	T301	6.0
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PG 64-22 + 3% AXION BITUMEN BOOSTER (P)

Elastic Recovery, %	25 ⁰ C	T301	75.0
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PG 64-22 + 3% AXION BITUMEN BOOSTER (P) + 0.25% AXION BITUMEN BOOSTER (L)

Elastic Recovery, %	25 ⁰ C	T301	79.0
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PG 64-22 + 3% AXION BITUMEN BOOSTER (P) + 0.5% AXION BITUMEN BOOSTER (L)

Elastic Recovery, %	25 ⁰ C	T301	79.0
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REPORT AND ANALYSIS:

1. Based on Original DSR,
 - a) PG 64-22 is graded at PG 64-XX. The True Grade is 65.8⁰C
 - b) PG 64-22 + 3% Axion Bitumen Booster (P) is graded at PG 70-XX. The true grade is 74.8⁰C
 - c) PG 64-22 + 3% Axion Bitumen Booster (P) + 0.25% Axion Bitumen Booster (L) is graded at PG 76-XX. The true grade is 77.7⁰C
 - d) PG 64-22 + 3% Axion Bitumen Booster (P) + 0.50% Axion Bitumen Booster (L) is grade at PG 76-XX. The true grade is 80.1⁰C.

The finished blend was delivered to the laboratory to be blended into asphalt for Hamburg testing, the following is an outline of the material properties:

A local aggregate was selected that has failed the Hamburg test in the past, this aggregate was chosen because we wanted to avoid an asphalt mixture which would have passed without any modification.

The following is an outline of the asphalt properties as tested:

Blender Content	=5.3% by wt. of mix	
RAP Content	=None	
Air Void Content	=7.3%	Pass
Average Rutting Depth	=3.10mm	Pass

Gradation

Screen	Percent Passing
3/4"	100
1/2"	99
3/8"	82
#4	48
#8	34
#16	17
#30	11
#50	9.1
#100	7.7
#200	5.3

If you have any questions, please don't hesitate to contact me.

Sincerely



Douglas Wolf
President

Axion Tuffcrete Cube Compression Test Result



LAFARGE READY MIX NIGERIA CUBE COMPRESSION TEST REPORT

(Method:BS EN 12390-2000)

Project: Trail mix	
Client:	Site:
Contractor:	Location:
Date of Pour: 11-Feb-21	
Mix No.: Black Axion Powder	Mix Grade: C30
Placing Method	Cube curing
<input type="checkbox"/> Pump <input type="checkbox"/> Chute <input type="checkbox"/> Bucket <input type="checkbox"/> Others	<input type="checkbox"/> Curing agent <input checked="" type="checkbox"/> Water cured <input type="checkbox"/> Dry cured <input type="checkbox"/> Others

SLUMP (mm):

7 Days					AREA (mm ²):22500		
Mark on cubes	Date of Testing	Age (Days)	Size of cube(mm)	Weight (Kg)	Density (Kg/m ³)	Load (KN)	Strength (N/mm ²)
1	18-Feb-21	7	150x150x150	8.15	2415	418.5	18.6
2	18-Feb-21	7	150x150x150				
3	18-Feb-21	7	150x150x150				
Average			150x150x150	8.15	2415	418.5	18.6

28 Days							
Mark on cubes	Date of Testing	Age (Days)	Size of cube(mm)	Weight (Kg)	Density (Kg/m ³)	Load (KN)	Strength (N/mm ²)
4	11-Mar-21	28	150x150x150	8.23	2439	738.0	32.8
5	11-Mar-21	28	150x150x150				
6	11-Mar-21	28	150x150x150				
Average			150x150x150	8.23	2439	738.0	32.8

Cube Cast by:
Mr Ogunjobi

Concrete Cube Compression Test Report - EN 12390:3

Customer Name	AXION
Project Name	TM 1 (PLANT)
Project Address	DANGOTE RIFINERY ROAD

Mix Code		Commercial Name	C28/35-S1-22mm		
Cast Date	April 5, 2024	Structural Member	ROAD PAVEMENT		
Identity No		Slump (mm)	45-60	Flow (mm)	N/A
Sampling Location	HITEC REFINERY	Spot Sample		Composite Sample	
Curing Method	Water Immersion				

Sample Number	Testing Date	Age (Days)	Cube Size (mm)	Weight (kg)	Density (kg/m ³)	Load (KN)	Strength (N/mm ²)
PT 56455	12-Apr-24	7	150x150x150	8.300	2459	527.59	23.5
PT 56456	12-Apr-24		150x150x150	8.270	2450	640.68	28.5
PT 56457	12-Apr-24		150x150x150	8.330	2468	594.65	26.5
Average				8.30	2459	587.64	26.2

Sample Number	Testing Date	Age (Days)	Cube Size (mm)	Weight (kg)	Density (kg/m ³)	Load (KN)	Strength (N/mm ²)
PT 56458	3-May-24	28	150x150x150	8.190	2427	798.31	35.5
PT 56459	3-May-24		150x150x150	8.250	2444	884.75	39.5
PT 56460	3-May-24		150x150x150	8.200	2430	859.32	38.0
Average				8.21	2434	847.46	37.67

Tested By: _____ <div style="text-align: center; margin-top: 10px;">Name</div>	 Signature	_____ Date
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Concrete Cube Compression Test Report - EN 12390:3

Customer Name	AXION
Project Name	TM 3 (BABY MIXER, WITH AXION PRODUCT)
Project Address	DANGOTE RIFINERY ROAD

Mix Code		Commercial Name	C28/35-S1-22mm		
Cast Date	April 6, 2024	Structural Member	ROAD PAVEMENT		
Identity No		Slump (mm)	50	Flow (mm)	N/A
Sampling Location	HITEC REFINERY	Spot Sample		Composite Sample	
Curing Method	Water Immersion				

Sample Number	Testing Date	Age (Days)	Cube Size (mm)	Weight (kg)	Density (kg/m ³)	Load (KN)	Strength (N/mm ²)
PT 56455	13-Apr-24	7	150x150x150	8.330	2468	777.92	34.5
PT 56456	13-Apr-24		150x150x150	8.300	2459	859.32	38.0
PT 56457	13-Apr-24		150x150x150	8.420	2495	920.52	41.0
Average				8.35	2474	852.59	37.8

Sample Number	Testing Date	Age (Days)	Cube Size (mm)	Weight (kg)	Density (kg/m ³)	Load (KN)	Strength (N/mm ²)
PT 56458	4-May-24	28	150x150x150	8.490	2516	1031	46.0
PT 56459	4-May-24		150x150x150	8.380	2483	1062.6	47.0
PT 56460	4-May-24		150x150x150	8.290	2456	1041.6	46.5
Average				8.39	2485	1045.07	46.50

Tested By: _____ <div style="text-align: center; margin-top: 10px;">Name</div>	 Signature: _____	_____ <div style="text-align: center; margin-top: 10px;">Date</div>
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Request no : AXION A5
Client : Axion Africa
Dei-Dei International Building
Material, Market Abuja.
Opposite Panteka

Date reported : 10-05-2024

Project : DANGOTE FERTILIZER TO ELEKO JUNCTION

Attention : Axion Africa

Compressive Strength of Concrete Cubes [TMH1 - D1, D3, ASTM C293]

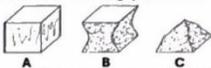
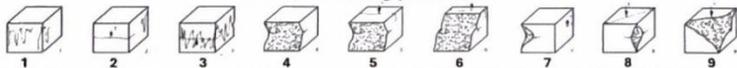
Date Received :	06-04-2024	Structure / Element :	CRCP
Date in Water :	07-04-2024	Location :	REFINERY SECTION 1 LABORATORY
Cubes Made By :		Concrete Supplier :	MIXER AT LABORATORY
Cubes Tested By :		Delivery Note No :	
Specified Strength (MPa) :	C35	Truck Reg. Number :	
Specified Slump :	60 mm	Environmental Condition :	SUNNY AND HOT
Measured Slump :	40 mm	Curing Tank Temp :	26 °C
Engineer's Specification :		Press Serial No :	
Balance Number :		Correction Factor :	1.000

7 Day Compressive Strength

Lab Number	Cube Mark	Date Cast	Date Tested	Age Days	Break Pattern	Flatness	Mass	Apparent Density	Dimension		Load	Compressive Strength
									Length	Width		
A	1	06-04-2024	13-04-2024	7	A		8211	2433	150.00	150.00	859	38.2
B	2	06-04-2024	13-04-2024	7	A		8175	2422	150.00	150.00	840	37.3
C	3	06-04-2024	13-04-2024	7	A		8130	2409	150.00	150.00	845	37.5
Average									150.00	150.00	848 kN	38.0 MPa
Standard Deviation									0.0	0.0	10.2	0.5

28 Day Compressive Strength

Lab Number	Cube Mark	Date Cast	Date Tested	Age Days	Break Pattern	Flatness	Mass	Apparent Density	Dimension		Load	Compressive Strength
									Length	Width		
D	4	06-04-2024	04-05-2024	28	A		8194	2428	150.00	150.00	1021	45.4
E	5	06-04-2024	04-05-2024	28	A		8205	2431	150.00	150.00	995	44.2
F	6	06-04-2024	04-05-2024	28	A		8169	2420	150.00	150.00	997	44.3
Average									150.00	150.00	1004 kN	45.0 MPa
Standard Deviation									0.0	0.0	14.4	0.6

Standard breaking patterns**Unusual breaking patterns****Deviation from test method :**

Remarks and notes : CRCP MIX DONE WITH AXION AFRICA LIQUID POLYMER ADDED

The samples were subjected to analysis according to (COLTO) (TMH1) (BS) (ASTM) (TMH5)

The test results reported relate to the sample tested.

Further use of the above information is not the responsibility or liability of Hitech Construction.

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Report compiled by : Christiaan Jordaan

Report program v13.10.1 (01-04-2024)

Signature
Christiaan Jordaan
Ground / Field Manager

Axion Tuffcrete Water Penetration Test Result

AXION TRIAL MIX				
ITB BAR-BEACH				
DATE : 20-4-2024				
CUBE No	3	3		
	WATER PENETRATION (mm)			
	18.23	22.90		
	20.95	16.04		
	17.11	15.42		
	15.53	13.61		
	17.43	10.55		
	16.46	9.81		
AVERAGE	17.62	14.72	0	0

FEDERAL MINISTRY OF WORKS
MATERIALS, GEOTECHNICS & QUALITY CONTROL
15, AWOLOWO ROAD, IKOYI, LAGOS STATE

TEST SHEET FOR COMPRESSION TEST ON CONCRETE CUBES				REF NO:			
DATE OF CASTING : 04/06/24				DESTINATION: OFFICE(Abuja)			
WHERE USED: TRIAL MIX(NON – CHEMICAL)							
SAMPLE NO: DATE OF DELIVERY: 02/07/24 MIXING TIME: TIME CUBE MADE:				DATE IN WATER: 05/06/24 DATE OUT OF WATER: 02/07/24 AGE OF CUBE: 28 DAYS			
DETAILS OF MIX:							
METHOD OF CURING: DIMENSION IN WATER							
CONCRETE CLASS: C-35			PSI =		N/MM ² : 35.2N/MM ²		
----- Cubes made by		<u>ADESHOLA I</u> Officer Completing Test			----- Client		
TEST RESULTS							
Mark on Cubes	Date of testing	Age of Testing	Size of Cube(mm)	Weight of cubes (kg)	Density kg/m ³	Crushed at KN	Strength N/mm ²
1	02/06/24	28 DAYS	150X150X150mm	8.26	2.477	800	35.6
2				8.25	2.444	810	36.0
3				8.67	2.569	766	34.0
AVERAGE STRENGTH : 35.2 N/MM ²				MINIMUM STRENGTH : 34.0N/MM ²			
----- Approved by		SATISFACTORY				----- Client	

FEDERAL MINISTRY OF WORKS
MATERIALS, GEOTECHNICS & QUALITY CONTROL
15, AWOLowo ROAD, IKOYI, LAGOS STATE

TEST SHEET FOR COMPRESSION TEST ON CONCRETE CUBES				REF NO:									
DATE OF CASTING : 30/05/24				CONTRACTOR: AXION AFRICA									
DETAILS: TRIAL MIX (WITH CHEMICAL).													
SAMPLE NO:				DATE IN WATER: 31/05/24									
DATE OF DELIVERY: 13/06/24				DATE OUT OF WATER: 13/06/24									
MIXING TIME:				AGE OF CUBE: 14 DAYS									
TIME CUBE MADE:													
DETAILS OF MIX:													
METHOD OF CURING: COMPLETE IMMERSION IN WATER													
CONCRETE CLASS: C-35			PSI =		N/MM ² : 37.6N/MM ²								
<table style="width: 100%; border: none;"> <tr> <td style="width: 30%; border: none;">_____</td> <td style="width: 40%; border: none; text-align: center;">ADESHOLA J</td> <td style="width: 30%; border: none;">_____</td> </tr> <tr> <td style="border: none; text-align: center;">Cubes made by</td> <td style="border: none; text-align: center;">Officer Completing Test</td> <td style="border: none; text-align: center;">Client</td> </tr> </table>								_____	ADESHOLA J	_____	Cubes made by	Officer Completing Test	Client
_____	ADESHOLA J	_____											
Cubes made by	Officer Completing Test	Client											
TEST RESULTS													
Mark on Cubes	Date of testing	Age of Testing	Size of Cube(mm)	Weight of cubes (kg)	Density kg/m ³	Crushed at KN	Strength N/mm ²						
1	13/06/24	14 DAYS	150X150X150mm	8.68	2.572	830	36.9						
2				8.15	2.415	807	35.9						
3				8.02	2.316	900	40.0						
AVERAGE STRENGTH : 37.6 N/MM ²				MINIMUM STRENGTH : 35.9N/MM ²									
<table style="width: 100%; border: none;"> <tr> <td style="width: 30%; border: none;">_____</td> <td style="width: 40%; border: none; text-align: center;">SATISFACTORY</td> <td style="width: 30%; border: none;">_____</td> </tr> <tr> <td style="border: none; text-align: center;">Approved by</td> <td style="border: none;"></td> <td style="border: none; text-align: center;">Client</td> </tr> </table>								_____	SATISFACTORY	_____	Approved by		Client
_____	SATISFACTORY	_____											
Approved by		Client											

FEDERAL MINISTRY OF WORKS
MATERIALS, GEOTECHNICS & QUALITY CONTROL
15, AWOLowo ROAD, IKOYI, LAGOS STATE.

SUMMARY TABLE
CONCRETE GRADE 35(Mix ratio 1:1:5:3)

TRIAL MIX (WITH CHEMICAL)	AVERAGE STRENGTH(N/MM²)	TRIAL MIX (NON-CHEMICAL)	AVERAGE STRENGTH(N/MM²)
3 DAYS(14.0N/MM ²)	31.9N/MM ²	3 DAYS(14.0N/MM ²)	24.0N/MM ²
7 DAYS(22.75N/MM ²)	36.0N/MM ²	7 DAYS(22.75N/MM ²)	28.2N/MM ²
14 DAYS(31.5N/MM ²)	37.6N/MM ²	14 DAYS(31.5N/MM ²)	30.7N/MM ²
28 DAYS(35N/MM ²)	43.2N/MM ²	28 DAYS(35N/MM ²)	35.2N/MM ²
SLUMP(10-60)mm	20mm	SLUMP(10-60)mm	20mm



AXION DECORATIVE COLOURED WALLS AND FLOOR COATING



Technical Data Sheet: *Axion Polycoat (Liquid Marble)*

DESCRIPTION:

Axion Polycoat (*Liquid marble*) is a high-build, anti-slip, and 100% waterproof coating technology, engineered for durable and decorative wall and floor surface coating applications. The technology integrates Polycoat with the Axion Totalcrete cement or Tuffcrete cement to deliver enhanced coating thickness, superior mechanical strength, improved safety performance, and premium customized textured finishes. It is suitable for both external and internal, providing long-lasting protection and aesthetic appeal across a wide range of residential, commercial, and industrial uses.

ADVANTAGES:

- 100% waterproof and damp-resistant
- Anti-slip surface performance
- High-build coating with enhanced thickness
- Superior mechanical strength
- Excellent adhesion to prepared substrates
- Durable and abrasion resistant
- Resistant to cracking, peeling, and delamination
- Fast Setting
- Full decorative control

PACKAGING:

- Axion Polycoat (*Liquid marble*) is available in 30kg.

AVAILABLE COLOURS:

- Grey
- Off-White
- White

RECOMMENDED SUBSTRATES:

- Concrete Surfaces
- Cement Screeds
- Rendered Walls
- Masonry Blocks
- Polystyrene Boards
- Metal Surfaces
- Gypsum Board Coating Against Water Damage
- Floors

USES:

- Decorative coloured wall and floor coating (interior/exterior)
- Exposed roof decks
- Warehouse floors.
- Balcony
- Retaining walls
- Drive ways
- Crack treatments
- Pile cap coating (bridges)
- Steel coating
- Polystyrene coating etc.

MIX METHOD:

- *Before use, Mix thoroughly.*

APPLICATIONS:

<i>Product Combo</i>	<i>Axion Polycoat (Liquid marble) + Totalcrete Cement or Tuffcrete Cement</i>
<i>Mix Ratio</i>	<i>1 bucket of Axion Polycoat (30kg) : 1 bag of totalcrete Cement (20kg) or 1 bag of tuffcrete Cement (20kg)</i>
<i>Mode of Application</i>	<i>Applied using trowel</i>

Note: Axion Polycoat (Liquid marble) is combined with totalcrete cement to achieve a darker colour and with tuffcrete cement to achieve a lighter colour.

After the coating process, apply Axion Marbluxe Paint to achieve the desired colour finish.

COVERAGE:

- 20 SQM

STORAGE:

Store in a dry area out of reach of direct sunlight between 3⁰C and 50⁰C.

CAUTION HEALTH AND SAFETY:

Axion Polycoat (Liquid marble) is not classified as hazardous material. In case of accidental splashes to the eye, rinse with clean water and seek medical advice. For further information refer to the material safety data sheet. Axion Polycoat (Liquid marble) is nonflammable.

TECHNICAL ADVICE:

Call RTT Sealant: (+1)416-414-4285, (+1)473-406-5336

Email RTT Sealant: www.axioncanada.com

Prepared by: Axion Construction Solutions Inc.

Preparation date: 24th August 2024

TECHINICAL ADVICE:

Customers are advised to consider the information in this data sheet in the context of how the product will be used, including surfaces and any other products used. The information provided in this data sheet represents our best scientific and practical knowledge. Any advice, information or assistance provided by AXION in relation to its products is given in good faith, however is provided without liability or responsibility. Due to the wide variety of site conditions we are unable to assume liability for any loss that may arise from the use of our products. The user is responsible for checking the suitability of products for their intended use..



AXION HYDROSHIELD DIRECT SCREED BOND/PUTTY



Technical Data Sheet: *Axion Hydroshield Direct Screed Bond/Putty*

DESCRIPTION:

Axion Hydroshield Direct Screed Bond/Putty is a high-performance polymer-modified bonding and waterproofing compound developed for use in combination with Totalcrete or Tuffcrete Cement. It is formulated to produce 100% waterproof, damp-resistant, and weather-resistant screeding for interior and exterior applications.

The product is supplied as a ready-to-use system and does not require the addition of tile gum, cement, top bond, or any other admixture.

ADVANTAGES:

- 100% Waterproof, Damp-proof & Anti-Fungi
- Longer Life Expectancy
- Does not require any other products for its application like water, tile gum, cement, or other screeding bond.
- Reduces cracking and shrinkage
- Excellent adhesion
- Saves cost

PACKAGING:

- Axion Hydrosshield Direct Screed Bond/Putty is available in 30kg.

APPEARANCE:

- Without any combination = Milky
- Combination with Totalcrete cement = Grey Colour
- Combination with Tuffcrete cement = White Colour

RECOMMENDED USES:

- Interior and exterior wall screeding and rendering
- 100% waterproofing in wet areas (bathrooms, kitchens, balconies, terraces)

MIX METHOD:

- *Before use, Mix thoroughly.*

APPLICATIONS:

<i>Product Combo</i>	<i>Axion Hydrosshield Direct Screed Bond/Putty + Totalcrete Cement or Tuffcrete Cement</i>
<i>Mix Ratio</i>	<i>1 bucket of Axion Hydrosshield Direct Screed Bond (30kg) : 1 bag of totalcrete Cement (20kg) or 1 bag of tuffcrete Cement (20kg)</i>
<i>Mode of Application</i>	<i>Applied using any screeding Tools</i>

Note: Axion Hydrosshield Direct Screed Bond/Putty is combined with Totalcrete cement for exterior screeding and with Tuffcrete cement for interior screeding.

COVERAGE:

- 45 – 50 SQM

STORAGE:

Store in a dry area out of reach of direct sunlight between 3^oC and 50^oC

CAUTION HEALTH AND SAFETY:

Axion Hydrosshield Direct Screed Bond/Putty is not classified as hazardous material. In case of accidental splashes to the eye, rinse with clean water and seek medical advice. For further information refer to the material safety data sheet. Axion Hydrosshield Direct Screed Bond/Putty is nonflammable.

TECHINICAL ADVICE:

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AXION Polycolour (Marbluxe Paint)



Technical Data Sheet: Axion Polycolour (Marbluxe Paint)

DESCRIPTION:

Axion Polycolour (Marbluxe Paint) is a premium decorative finishing paint developed specifically for high-end wall and floor coating applications. It is engineered to deliver a luxurious marble-like appearance while providing outstanding durability and surface protection.

Axion Polycolour is available in a wide range of vibrant and customized colours, allowing for creative design flexibility across residential, commercial, and industrial spaces. Axion Polycolour (Marbluxe Paint) is 100% waterproof, temperature-resistant, and formulated to withstand varying environmental conditions without peeling, cracking, or fading.

Its high-gloss finish enhances surface aesthetics, creating a smooth, elegant, and easy-to-clean surface that maintains its brilliance over time. When applied as part of the Axion poly coat technology, Axion Polycolour delivers both visual excellence and long-term performance.

ADVANTAGES:

- 100% waterproof
- Temperature resistant
- High durability and abrasion resistance
- Excellent adhesion to prepared substrates
- Smooth, glossy, and easy-to-clean surface
- Resistant to peeling, cracking, and fading
- Full decorative control

PACKAGING:

- Axion Polycolour (Marbluxe Paint) is available in 30kg.

AVAILABLE COLOURS:

- Brown
- Black
- Blue
- Red
- Green
- Yellow
- Beige

APPLICATIONS:

- Applied using trowel, roller, or spray depending on finish requirement.

COVERAGE:

- 40 – 50 SQM

APPEARANCE:

- Marble finish look

STORAGE:

Store in a dry area out of reach of direct sunlight between 3⁰C and 50⁰C.

CAUTION HEALTH AND SAFETY:

Axion Polycolour (Marbluxe Paint) is not classified as hazardous material. In case of accidental splashes to the eye, rinse with clean water and seek medical advice. For further information refer to the material safety data sheet. Axion Polycolour (Marbluxe Paint) is nonflammable.

TECHINICAL ADVICE:

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Email RTT Sealant: www.axioncanada.com

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AXION 100% WATERPROOF FLOOR COATING



Technical Data Sheet: Axion Polycoat (Liquid Marble)

DESCRIPTION:

Axion Polycoat (*Liquid marble*) is a high-build, anti-slip, and 100% waterproof coating technology, engineered for durable and decorative wall and floor surface coating applications. The technology integrates Polycoat with the Axion Totalcrete cement or Tuffcrete cement to deliver enhanced coating thickness, superior mechanical strength, improved safety performance, and premium customized textured finishes. It is suitable for both external and internal, providing long-lasting protection and aesthetic appeal across a wide range of residential, commercial, and industrial uses.

ADVANTAGES:

- 100% waterproof and damp-resistant
- Anti-slip surface performance
- High-build coating with enhanced thickness
- Superior mechanical strength
- Excellent adhesion to prepared substrates
- Durable and abrasion resistant
- Resistant to cracking, peeling, and delamination
- Fast Setting
- Full decorative control

PACKAGING:

- Axion Polycoat (*Liquid marble*) is available in 30kg.

AVAILABLE COLOURS:

- Grey
- Off-White
- White

RECOMMENDED SUBSTRATES:

- Concrete surfaces
- Cement screeds
- Rendered walls
- Masonry blocks
- Polystyrene boards
- Metal Surfaces
- Floors

USES:

- Decorative coloured floor coating (interior/exterior)
- Exposed roof decks
- Warehouse floors.
- Balcony
- Drive ways
- Crack treatments (this does not include structural cracks)
- Pile cap coating (bridges)
- Steel coating
- Polystyrene coating etc.

MIX METHOD:

- *Before use, Mix thoroughly.*

APPLICATIONS:

<i>Product Combo</i>	<i>Axion Polycoat (Liquid marble) + Totalcrete Cement or Tuffcrete Cement</i>
<i>Mix Ratio</i>	<i>1 bucket of Axion Polycoat (30kg) : 1 bag of totalcrete Cement (20kg) or 1 bag of tuffcrete Cement (20kg)</i>
<i>Mode of Application</i>	<i>Applied using trowel</i>

Note: Axion Polycoat (Liquid marble) is combined with totalcrete cement to achieve a darker colour and with tuffcrete cement to achieve a lighter colour.

COVERAGE:

- 20 SQM

STORAGE:

Store in a dry area out of reach of direct sunlight between 3⁰C and 50⁰C.

CAUTION HEALTH AND SAFETY:

Axion Polycoat (Liquid marble) is not classified as hazardous material. In case of accidental splashes to the eye, rinse with clean water and seek medical advice. For further information refer to the material safety data sheet. Axion Polycoat (Liquid marble) is nonflammable.

TECHINICAL ADVICE:

Call RTT Sealant: (+1)416-414-4285, (+1)473-406-5336

Email RTT Sealant: www.axioncanada.com

Prepared by: Axion Construction Solutions Inc.

Preparation date: 24th August 2024

TECHINICAL ADVICE:

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Limitations: This product is not intended for structural crack repairs. But, structural cracks, actives cracks or cracks caused by load movement must be accessed and treated by a qualified structural engineer using appropriate structural rebuild systems.



AXION SCREED ADHESIVE



Technical Data Sheet: *Axion Hydrosshield Poly Bond*

DESCRIPTION:

Axion Hydrosshield Poly Bond is a high-performance polymer-modified screed adhesive and waterproofing compound developed for use in combination with any conventional screed material (Screeding Paint or Cement). It is formulated to produce 100% waterproof, damp-resistant, and weather-resistant screeding for interior and exterior applications. Its more affordable than the conventional screed adhesive.

ADVANTAGES:

- 100% Waterproof, Damp-proof & Anti-Fungi
- Longer Life Expectancy
- Can be combined with conventional screeding materials (Screeding Paint and Cement)
- Reduces cracking and shrinkage
- Excellent adhesion
- Saves cost

PACKAGING:

- Axion Hydrosshield Poly Bond is available in 10kg.

APPEARANCE:

- Without any combination = Milky

RECOMMENDED USES:

- Interior and exterior wall screeding and rendering
- Waterproofing in wet areas (bathrooms, kitchens, balconies, terraces)
- As a bonding agent for cement-based screeds

MIX METHOD:

- Before use, mix thoroughly

APPLICATIONS:

<i>Product Combo</i>	<i>Axion Hydroshield Poly Bond can be combined with any conventional screeding material (Screeding Paint or Cement)</i>
<i>Mix Ratio</i>	<i>Mix 5kg Axion Hydroshield Poly Bond : 20L conventional screeding Paint. Then use as normal</i> <i>1: 20L water or 1% - 5% cement content</i>
<i>Mode of Application</i>	<i>Applied using trowel</i>

STORAGE:

Store in a dry area out of reach of direct sunlight between 3⁰C and 50⁰C.

CAUTION HEALTH AND SAFETY:

Axion Hydroshield Poly Bond Putty is not classified as hazardous material. In case of accidental splashes to the eye, rinse with clean water and seek medical advice. For further information refer to the material safety data sheet. Axion Hydroshield Poly Bond is nonflammable.

TECHINICAL ADVICE:

Call RTT Sealant: (+1)416-414-4285, (+1)473-406-5336

Email RTT Sealant: www.axioncanada.com

Prepared by: Axion Construction Solutions Inc.

Preparation date: 24th August 2024

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GENERAL CONCRETE WORKS



Technical Data Sheet: Totalcrete Polymer (*Liquid Cement*)

DESCRIPTION:

TOTALCRETE POLYMER (Liquid Cement) is a high-performance super plasticizer formulated from selected polymers specially designed to enable the water content of the concrete to perform more effectively. This effect can be used in high-strength concrete mixes to improve workability, increase ultimate strengths or facilitate a reduction in the cement content while sustaining and improving mix properties.

ADVANTAGES:

- 100% waterproof and damp-resistant concrete.
- Allows for high-strength production without excessive cement contents.
- Suitable for plastering, tiling and concrete works
- Improved workability reduces placing and compaction problems.
- Cement saving without affecting strength.
- Accelerates cement setting time
- Minimizing segregation and bleeding problems by improving cohesion.
- More durable concrete as a result of reduction in permeability and lower water-to-cement ratio.
- Light weight concrete

PACKAGING:

- Totalcrete Polymer is available in 5Litre, 20Litre Jerricans

COMPATIBILITY:

Totalcrete polymer can be used with all types of Portland cement and cement replacement materials. Totalcrete polymer is compatible with other admixtures used in the same concrete mix. If more than one type of admixture is to be used in the concrete mix, they must be dispensed to the concrete separately.

METHOD OF USE:

- Totalcrete polymer should be added in the water to be used for the concrete mix or dispensed directly into the concrete while adding water to achieve maximum performance.

MIX METHOD:

- *Before use, mix thoroughly.*

STANDARDS:

- Totalcrete polymer complies with BS EN 934-2:1998 and ASTM C494 Type G

TECHNICAL PROPERTIES:

Appearance: Milky

Specific Gravity: 1.88

DOSAGE:

Totalcrete Polymer = 1% - 1.5% of cement content (100kg cement : 1Litre – 1.5Litre), depending on the desired strength to be achieved.

STORAGE:

Store in a dry area out of reach of direct sunlight between 3⁰C and 50⁰C.

CAUTION HEALTH AND SAFETY:

Totalcrete polymer is not classified as hazardous material. In case of accidental splashes to the eye, rinse with clean water and seek medical advice. Suitable protective gloves and goggles should be worn. For further information refer to the material safety data sheet. Totalcrete polymer is nonflammable.

USES & APPLICATION:**1. 100% WATERPROOF CONCRETE (For General Concrete Work)**

<i>Product Combo</i>	<i>Totalcrete polymer + Portland Cement</i>
<i>Mix Ratio</i>	<i>a) Dilute 1litre of totalcrete polymer : 20Litres of Water b) Use the diluted totalcrete Polymer for your concrete mix</i>

2. HIGH STRENGTH DAMP-RESISTANT BLOCKS:

<i>Product Combo</i>	<i>Totalcrete polymer + Portland Cement</i>
<i>Mix Ratio</i>	<i>a) Dilute 1.5litre of totalcrete polymer : 20Litres of Water b) Use the diluted totalcrete Polymer for your cement mix</i>

TECHINICAL ADVICE:

Call RTT Sealant: (+1)416-414-4285, (+1)473-406-5336

Email RTT Sealant: www.axioncanada.com

Prepared by: Axion Construction Solutions Inc.

Preparation date: 24th August 2024

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AXION TOTALCRETE POLYMER (High-Range Super Plasticizer)



Technical Data Sheet: Totalcrete Polymer (High-Range Super Plasticizer)

DESCRIPTION:

TOTALCRETE POLYMER (High-Range Super Plasticizer) is a 4-in-one high-performance super plasticizing admixture formulated from selected polymers specially designed to enable the water content of the concrete to perform more effectively. This effect can be used in high-strength concrete mixes to improve workability, increase ultimate strengths or facilitate a reduction in the cement content while sustaining and improving mix properties.

APPLICATION:

- Recommended for early high-strength concrete mixes.
- Excellent Plasticizer
- Can be used as a Retarder
- 100% Water-proofing / damp-resistant effect
- Piling works, Pile caps
- Ready concretes... etc.

ADVANTAGES:

- Allows for high-strength production without excessive cement contents.
- Improved workability reduces placing and compaction problems.
- Cement saving without affecting strength.
- Minimizing segregation and bleeding problems by improving cohesion.
- More durable concrete as a result of reduction in permeability and lower water-to-cement ratio.
- 100% waterproof and damp resistant.

PACKAGING:

- Totalcrete Polymer is available in 1000Litres.

COMPATIBILITY:

Totalcrete polymer can be used with all types of Portland cement and cement replacement materials. Totalcrete polymer is compatible with other admixtures used in the same concrete mix. If more than one type of admixture is to be used in the concrete mix, they must be dispensed to the concrete separately.

METHOD OF USE:

- Totalcrete polymer should be added in the water to be used for the concrete mix or dispensed directly into the concrete while adding water to achieve maximum performance.

Mix Method:

- *Before use, mix thoroughly.*

STANDARDS:

- Totalcrete polymer complies with BS EN 934-2:1998 and ASTM C494 Type G

TECHNICAL PROPERTIES:

Appearance: Milky

Specific Gravity: 1.88

DOSAGE:

Totalcrete Polymer = 1% - 1.5% of cement content (100kg cement : 1Litre – 1.5Litre), depending on the desired strength to be achieved.

STORAGE:

Store in a dry area out of reach of direct sunlight between 3⁰C and 50⁰C.

CAUTION HEALTH AND SAFETY:

Totalcrete polymer is not classified as hazardous material. In case of accidental splashes to the eye, rinse with clean water and seek medical advice. Suitable protective gloves and goggles should be worn. For further information refer to the material safety data sheet. Totalcrete polymer is nonflammable.

TECHNICAL ADVICE:

Call RTT Sealant: (+1)416-414-4285, (+1)473-406-5336

Email RTT Sealant: www.axioncanada.com

Prepared by: Axion Construction Solutions Inc.

Preparation date: 24th August 2024

TECHNICAL ADVICE:

Customers are advised to consider the information in this data sheet in the context of how the product will be used, including surfaces and any other products used. The information provided in this data sheet represents our best scientific and practical knowledge. Any advice, information or assistance provided by AXION in relation to its products is given in good faith, however is provided without liability or responsibility. Due to the wide variety of site conditions we are unable to assume liability for any loss that may arise from the use of our products. The user is responsible for checking the suitability of products for their intended use.



AXION SCREED-PLASTERING



Technical Data Sheet: Totalcrete Polymer (*Liquid Cement*)

DESCRIPTION:

TOTALCRETE POLYMER (*Liquid Cement*) is a high-performance super plasticizer formulated from selected polymers specially designed to enable the water content of the concrete to perform more effectively. This effect can be used in high-strength concrete mixes to improve workability, increase ultimate strengths or facilitate a reduction in the cement content while sustaining and improving mix properties.

ADVANTAGES:

- 100% waterproof and damp-resistant concrete.
- Allows for high-strength production without excessive cement contents.
- Suitable for plastering, tiling and concrete works
- Improved workability reduces placing and compaction problems.
- Cement saving without affecting strength.
- Accelerates cement setting time
- Minimizing segregation and bleeding problems by improving cohesion.
- More durable concrete as a result of reduction in permeability and lower water-to-cement ratio.
- Light weight concrete

PACKAGING:

- Totalcrete Polymer is available in 5Litres, 20Litres Jerricans.

COMPATIBILITY:

Totalcrete polymer can be used with all types of Portland cement and cement replacement materials. Totalcrete polymer is compatible with other admixtures used in the same concrete mix. If more than one type of admixture is to be used in the concrete mix, they must be dispensed to the concrete separately.

METHOD OF USE:

- Totalcrete polymer should be added in the water to be used for the concrete mix or dispensed directly into the concrete while adding water to achieve maximum performance.

MIX METHOD:

- *Before use, mix thoroughly*

STANDARDS:

- Totalcrete polymer complies with BS EN 934-2:1998 and ASTM C494 Type G

TECHNICAL PROPERTIES:

Appearance: Milky

Specific Gravity: 1.88

DOSAGE:

Totalcrete Polymer = 1% - 1.5% of cement content (100kg cement : 1Litre – 1.5Litre), depending on the desired strength to be achieved.

STORAGE:

Store in a dry area out of reach of direct sunlight between 3⁰C and 50⁰C.

CAUTION HEALTH AND SAFETY:

Totalcrete polymer is not classified as hazardous material. In case of accidental splashes to the eye, rinse with clean water and seek medical advice. Suitable protective gloves and goggles should be worn. For further information refer to the material safety data sheet. Totalcrete polymer is nonflammable.

USES & APPLICATION:**1. SCREED-PLASTERING:**

<i>Product Combo</i>	<i>Totalcrete polymer + Plastering mix + Totalcrete Cement or Tuffcrete Cement</i>
<i>Mix Ratio</i>	<p>Plastering mortar:</p> <p>a) Dilute 1litre of totalcrete polymer : 20Litres of Water</p> <p>b) With the diluted Totalcrete Polymer, Mix the cement and sand to form your plastering mortar. 30mins after plastering, mix the raw polymer with the Totalcrete or tuffcrete cement thoroughly to make your screeding paste and screed immediately</p> <p>Screeding Paste:</p> <p>c) 1 jerrican of Totalcrete polymer (20L) : 1 bag of totalcrete cement or tuffcrete cement (20kg). mix gradually until the desired consistency is achieved.</p>
<i>Coverage</i>	<i>35- 40SQM</i>

2. 100% WATERPROOF PLASTERING:

<i>Product Combo</i>	<i>Totalcrete polymer + Plastering mix</i>
<i>Mix Ratio</i>	<p>Plastering mortar:</p> <p>a) Dilute 1litre of totalcrete polymer : 20Litres of Water</p> <p>b) With the diluted Totalcrete Polymer, Mix the cement and sand to form a mortar</p>

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AXION TILE ADHESIVE



Technical Data Sheet: Tile Adhesive

DESCRIPTION:

TOTALCRETE POLYMER (*Liquid Cement*) is a high-performance super plasticizing admixture formulated from selected polymers specially designed to enable the water content of the concrete to perform more effectively. This effect can be used in high-strength concrete mixes to improve workability, increase ultimate strengths or facilitate a reduction in the cement content while sustaining and improving mix properties.

ADVANTAGES:

- Allows for high-strength production without excessive cement contents.
- Suitable for tiling works
- Improved workability reduces placing and compaction problems.
- Cement saving without affecting strength.
- Accelerates cement setting time
- Minimizing segregation and bleeding problems by improving cohesion.
- More durable concrete as a result of reduction in permeability and lower water-to-cement ratio.

PACKAGING:

- Totalcrete Polymer is available in 5Litres, 20Litres Jerricans.

COMPATIBILITY:

Totalcrete polymer can be used with all types of Portland cement and cement replacement materials. Totalcrete polymer is compatible with other admixtures used in the same concrete mix. If more than one type of admixture is to be used in the concrete mix, they must be dispensed to the concrete separately.

METHOD OF USE:

- Totalcrete polymer should be added in the water to be used for the concrete mix or dispensed directly into the concrete while adding water to achieve maximum performance.

STANDARDS:

- Totalcrete polymer complies with BS EN 934-2:1998 and ASTM C494 Type G

TECHNICAL PROPERTIES:

Appearance: Milky

Specific Gravity: 1.88

DOSAGE:

Totalcrete Polymer = 1% - 1.5% of cement content (100kg cement : 1Litre – 1.5Litre), depending on the desired strength to be achieved.

STORAGE:

Store in a dry area out of reach of direct sunlight between 3^oC and 50^oC.

CAUTION HEALTH AND SAFETY:

Totalcrete polymer is not classified as hazardous material. In case of accidental splashes to the eye, rinse with clean water and seek medical advice. Suitable protective gloves and goggles should be worn. For further information refer to the material safety data sheet. Totalcrete polymer is nonflammable.

Mix Method:

Before use, mix thoroughly.

USES & APPLICATION:

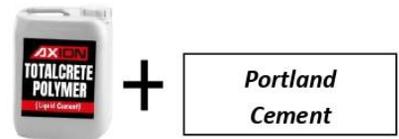
1. 100% WATERPROOF TILING:

Product Combo	Totalcrete polymer + Totalcrete Cement
Mix Ratio	1 jerrican of Totalcrete polymer (20L) : 2 bags of totalcrete Cement (40kg)
Coverage	40-50SQM



2. REGULAR TILING:

Product Combo	Totalcrete polymer + conventional portland cement
Mix Ratio	a) Dilute 1Litre of totalcrete polymer : 20Litres of Water b) With the diluted Totalcrete Polymer, Mix with 50kg conventional Portland cement



TECHINICAL ADVICE:

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GENERAL CONCRETE WORKS 2



Technical Data Sheet: Tuffcrete Polymer (Plastercizer co-polymer)

DESCRIPTION:

Axiom Tuffcrete polymer (Plastercizer co-polymer) is a chemical specifically developed for polymer modification of Portland cement and other hydraulic cement compositions. Cementitious products modified with Axiom Tuffcrete polymer show improved bonding strength to a variety of substrates, including all concrete works. In addition, this product improves the flexural and tensile strengths of hydraulic cement concretes. This multi-component polymer resists saponification and demonstrates good exterior durability with resistance to UV light and moisture. Thereby, protecting steel reinforcement from oxidation and corrosion.

The Tuffcrete polymer is designed to neutralise the salinity in seawater. It has also been proven to be one of the best products for lightweight concrete design.

ADVANTAGES:

- Enhanced bonding strength to concrete and masonry substrates
- 100% waterproof and damp-resistant performance
- Improved flexural and tensile strength
- Chemical resistance
- Fire-resistant properties
- Excellent exterior durability
- UV and moisture resistance
- Corrosion protection for steel reinforcement

- Suitable for saline and coastal environments
- Optimized for lightweight concrete design

TYPICAL APPLICATIONS:

- General concrete works
- Damp Proof Courses (DPC) casting
- Structural slabs
- Concrete roads and pavements
- Concrete roofs
- Pile foundations
- Swimming pools
- Drainage systems
- Marine and coastal concrete structures

PACKAGING:

- Tuffcrete polymer is available in 20Litre Jerricans

COMPATIBILITY:

Axion Tuffcrete polymer (Plastercizer co-polymer) can be used with all types of Portland cement and cement replacement materials. Axion Tuffcrete polymer (Plastercizer co-polymer) is compatible with other admixtures used in the same concrete mix. If more than one type of admixture is to be used in the concrete mix, they must be dispensed to the concrete separately.

METHOD OF USE:

- Axion Tuffcrete polymer (Plastercizer co-polymer) should be added in the water to be used for the concrete mix or dispensed directly into the concrete while adding water to achieve maximum performance.

MIX METHOD:

- *Before use, mix thoroughly.*

STANDARDS:

- Axion Tuffcrete polymer (Plastercizer co-polymer) complies with BS EN 934-2:1998 and ASTM C494 Type G

TECHNICAL PROPERTIES:

Appearance: Black

DOSAGE:

Tuffcrete polymer (Plastercizer co-polymer) = 1% - 1.5% of cement content (100kg cement : 1Litre – 1.5Litre), depending on the desired strength to be achieved.

5 – 7 Litres per cubic meter (m³) of concrete for casting works.

STORAGE:

Store in a dry area out of reach of direct sunlight between 3^oC and 50^oC.

CAUTION HEALTH AND SAFETY:

Tuffcrete polymer (Plastercizer co-polymer) is not classified as hazardous material. In case of accidental splashes to the eye, rinse with clean water and seek medical advice. Suitable protective gloves and goggles should be worn. For further information refer to the material safety data sheet. Tuffcrete polymer (Plastercizer co-polymer) is nonflammable.

USES & APPLICATION:**1. PLASTERING WORKS**

<i>Product Combo</i>	<i>Tuffcrete polymer + Portland Cement</i>
<i>Mix Ratio</i>	<i>a) Dilute 1litre of Tuffcrete polymer: 20Litres of Water b) Use the diluted Tuffcrete polymer for your concrete mix</i>

2. CONCRETE CAST WORKS:

Product Combo	Tuffcrete polymer + Portland Cement
Mix Ratio	5 – 7 Litres per cubic meter (m ³) of concrete

TECHINICAL ADVICE:

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Axion Products Approval by Federal Ministry of Works

THIS DAY MONDAY OCTOBER 20, 2014

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FEDERAL MINISTRY OF WORKS

COMMUNIQUE OF THE 21ST NATIONAL COUNCIL ON WORKS HELD AT THE DELTA STATE GOVERNMENT EVENT CENTRE, ASABA, DELTA STATE FROM OCTOBER 12 TO 17, 2014

- (20) Council approved the use of stabilizers and bitumen booster already being implemented by the Federal Ministry of Works as a means of improving the durability of road pavement, as well as reducing cost of road construction in the country.
- (21) Council directed Ministries in charge of roads to collaborate with universities and Research centres towards utilization of research findings as well as to consciously refer to the office of the Surveyor General of the Federation and State Surveyor-General for permanent data, being the repository for such data.

The 21st Meeting of the National Council on Works with the theme "Funding Road Development in Nigeria: A Paradox for Economic Transformation" was held at the Delta State Government Event Centre, Asaba, Delta State, from Sunday 12th to Friday 17th October, 2014. The meeting was declared open by His Excellency, the Deputy Governor of Delta State, Prof. Amos Utanna (SAN) on behalf of His Excellency, Dr. Emmanuel Ewela Uduaghan CON, Executive Governor of Delta State.

Meeting of the Technical Committees, as well as a meeting of the Permanent Secretaries preceded the Council Meeting which was presided over by Arc. Mike Oziegbo Onolemehem, CON.

Present at the Council meetings were distinguished members of the National Assembly led by the Chairman, House Committee on Works, Hon. Oguweli Ozangbachi; the Honourable Minister of Works, Arc. Mike Oziegbo Onolemehem, CON; Permanent Secretary, Federal Ministry of Works, Dr. A. K. Muhammad, OON; Honourable Commissioners of Works and their Permanent Secretaries from the 36 States of the Federation. Others were the Directors in the Federal Ministry of Works, Directors/Officials of other Federal and State Ministries, Departments and Agencies (MDAs), as well as Stakeholders in the Road Sector.

(17) Council noted that the Contractor-Finance Model of funding road infrastructure has not been fully developed in the country and urged the use of this model for road projects and directed for the review of the provisions of the Construction Policy to promote greater participation of indigenous contractors in the road sector in line with the Local Content Policy.

(18) Council recognized the importance of data to planning for road development, and accordingly adopted the creation of Road Asset Management System (RAMS) as a tool for project planning, budgeting and prioritization.

(19) Council recognized tolling of roads and bridges as a viable source of funding Road Development and noted that the Federal Ministry of Works had already carried out series of sensitization workshops to elicit stakeholders buy-in.

(20) Council approved the use of stabilizers and bitumen booster already being implemented by the Federal Ministry of Works as a means of improving the durability of road pavement, as well as reducing cost of road construction in the country.

(21) Council directed Ministries in charge of roads to collaborate with Universities and Research Centres towards utilization of research findings, as well as to consciously refer to the Office of the Surveyor General of the Federation and State Surveyors-General for pertinent data, being the repository for such data.

MEMO NO. NCW(2014)DEL/17

**USE OF STABILIZERS TO IMPROVE THE QUALITY AND COST OF
ROADS**

In pursuance to the improvement of the quality of federal road network, the federal ministry of works in collaboration with the Universities, Research Institutions and Consultants have tested and approved a number of Stabilizers to be incorporated in road construction. Some of these materials were successful in the stabilization of Black Cotton soil and other troublesome subgrade materials.

The tested materials :

- i. **Axion Soil Stabilizer/Axion Bitumen Booster,**

Prayer

Council is invited to note the importance of the new stabilizers for road works as it improves the quality and cost road work: and approve the use of these Stabilizers for road construction in projects executed by the ministry of works in Nigeria.

FEDERAL MINISTRY OF WORKS

HIGHWAYS MATERIALS, GEOTECHNICS & QUALITY CONTROL DEPARTMENT
HEADQUARTERS, MABUSHI – ABUJA

P.M.B.111,GARKI

TELEGRAMS:.....HONWORKS



Ref. No. FMW/HMGQC/AXI/ADMIX/VOL.I/54

Date: 18th October, 2024

The Managing Director/CEO,
Messrs Axion Express Engineering Ltd,
10ATF Kuboye Road, Oniru Lekki Phase 1,
Lagos, Nigeria.

Sir,

USE OF BITUMEN BOOSTER, SOLID BASE STABILIZER AND TUFFCRETE POLYMER MATERIALS.

I am pleased to convey the Hon. Minister's approval for the Ministry to fully incorporate the application of the above mentioned materials in our Bill of Engineering Measurements and Evaluation (BEME) in the construction of both flexible and rigid pavements on roads and bridges in Nigeria.

2. You are therefore enjoined to ensure that the approved products are adequately supplied to meet possible large scale demand for use in the construction of our roads and bridges.
3. You are further advised to ensure that the materials being supplied continue to meet international standards.


Engr Francis A. Ejim
Deputy Director Highways (MG&QC)
For: Honourable Minister

THANK
YOU!

CONTACT INFORMATION



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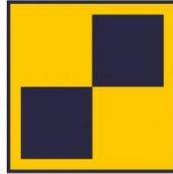


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