



An ISO 9001:2015 Certified company

Jar Cellulose & Coatings Product Portfolio

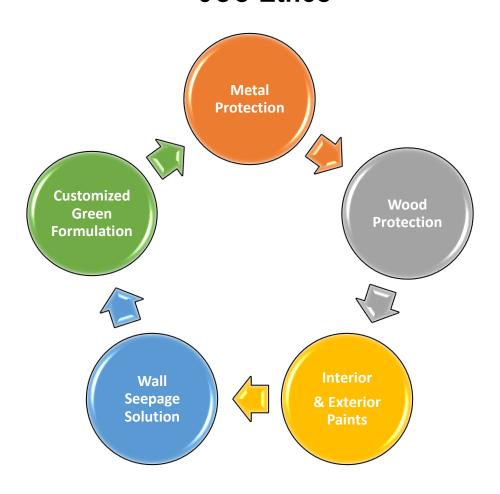






JCC Ethos

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JCC Ethos

Our Objective is to come out With product which is Completely biodegradable and thereby reducing the Impact on Environment

Understanding the need and formulating solutions is our passion, New innovation through the 'Green Way', by coming out with neutral pH Solutions, safe to applicator and the Environment, thereby contributing to the carbon Foot print



New Formulation Successfully done till now

- Cleaners for Solar Panels.
- Paint Remover Solution.
- Non-Acidic Cleaners.
- Odourless Water based Glue.
- Neutral pH Cleaners for Removing UV Inks.



 Formulations are based on Nano Technology and designed to care for human health and Environment.





JCC Products and Benefits Summary

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D	A II x I	An ISO 9001:2015 Certified compai
Product Name	Application	Advantages
BioGuard Wood	Surface Preparation of Wood to be done	Protect Wood from Bio-degradation and increase the life by more than double
WOOD WOOD	- Clean the surface to remove loose particle / Dust	Nano Technology Penetrates deep into the material and can apply for Wood Fibre etc
	- Any type of Paints / Coating to be removed to get clear wood surface	Ability to restrict water absorvation and faster curing
	Shake / Stir well before use	Anti-fungal, Anti-microbial and Anti-parasite coating
	Apply first coat by Brush/ Roller / Spray	Free flow Liquid
	Allow to cure for 2 hours and then apply the 2nd coat	Coverages more tha 400% compared to any other similar product
	Apply third coat as final	Easy Brush / Spray application
	2 hours gap to be mainted between each coat	Zero percent Wastage
		Non-Toxic / Smell Free
Product Name	Application	Advantages
BioGuard Metal	Surface Preparation of Metal to be done	Protect Metal from Bio-degradation and increase the life of asset by more than double
	- Remover rust loose particle with Sand paper / Wire Brush / Grinding	Nano Technology Penetrates deep into the material and can apply for Metal, Wood Fibre etc
	- Any type of Paints / Coating to be removed to get clear metal surface	Ability to restrict water absorvation and faster curing
	Shake / Stir well before use	Anti-fungal, Anti-microbial and Anti-parasite coating
	Apply first coat by Brush/ Roller / Spray	Free flow Liquid
	Allow to cure for 2 hours and then apply the 2nd coat	Coverages more tha 400% compared to any other similar product
	Apply third coat as final	Easy Brush / Spray application
	2 hours gap to be mainted between each coat	Zero percent Wastage
	* 2 hours is considered for room temperature / humidity condition	Non-Toxic / Smell Free
METAL TO SUARO	Shake / Stir well before use Apply first coat by Brush/ Roller / Spray Allow to cure for 2 hours and then apply the 2nd coat Apply third coat as final	Anti-fungal, Anti-microbial and Anti-parasite coating Free flow Liquid Coverages more tha 400% compared to any other similar product Easy Brush / Spray application





JCC Products and Benefits Summary

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Product Name	Application	Advantages
Jalseal	Surface Area to be cleaned to remove loose particles / Dust	Safe- No Solvents and non-flamable
JALSEAL SYNTHETIC RAMO ELASTO CONTING	Shake / Stir well before use	Ready to use product / Fast Curing
	Apply first coat by Brush/ Roller	Easy Brush / Spray application
	Allow to cure for 2 hours and then apply the 2nd coat	Clear Coating with Scratch Free, Anti-fungal, Anti-microbial an UV resistant property
	Apply third coat as final	Water base / Odourless
	2 hours gap to be mainted between each coat	Single component / highly durable
	* 2 hours is considered for room temperature / humidity condition	High resistant to abrasion and Chemical
Product Name	Application	Advantages
Rangbhaar	Surface Area to be cleaned to remove loose particles / Dust	Nono Technology Luxury Emulsion Water Proofing Paint
Rängbhar	Surface levelling should be done by using wall care putties	Ready to use Water Proofing paint
	Shake / Stir well before use	WPP is with Scratch Free, Anti-fungal, Anti-microbial an UV resistant property
	Apply first coat by Brush/ Roller	Nano Coatings enables cooler rooms when coated with WPP
	Allow to cure for 2 hours and then applythe 2nd coat	
	Apply third coat is required	
	2 hours gap to be mainted between each coat	
	* 2 hours is considered for room temperature / humidity condition	





Biodegradation process

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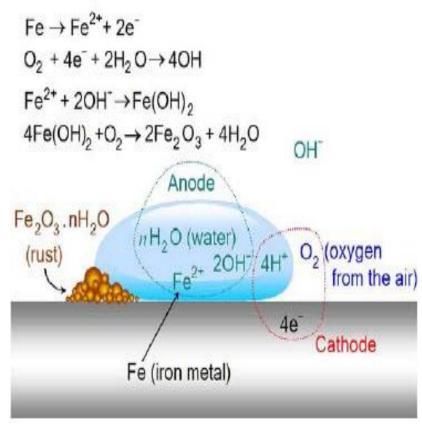
- Challenges & Present need
 - Maintenance cost of all assets is a challenge in terms of both time and cost.
 - Any protection coverage is mainly on surface and duration is short lived.
 - Present Environment highly influenced with dust and chemical pollution.
 - Need for a protective coatings which covers more than surface and for longer duration.
 - Understanding of base substrate that is Wood, Concrete, Metals is important as they are main components of assets.
 - Application of any protective coatings should be user friendly and safe for applicator & environment.





Metal Rusting process

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Types of Corrosion

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Sweet Corrosion (CO₂ Corrosion)



Sour Corrosion (H₂S Corrosion)



Erosion Corrosion (Microbiologically Induced corrosion)



Oxygen Corrosion Galvanic Corrosion



Crevice Corrosion (narrow Clearances)



Stress Corrosion Cracking





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Bio guard Metal

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BioGuard Metal is a high performance co-ordination polymer, water based, for conversion of rust and protection of metal from rusting.

BioGuard Metal ® consists of two aspects.

In the first aspect, on application of the product to the surface of iron the rust is converted into an organo metallic complex and passivated.

In the second aspect an elastomeric Co-polymer with cross linking compounds form a film which is Impermeable to air and moisture.

These two aspects stop the process of rusting of iron by converting and protecting. Depending upon

the degree of rusting of the iron surface, on application of the product, the product gives rise to black,

grey & brown film. Iron lower hydroxide gives black film; iron higher hydroxide gives grey film and iron lower oxide & Iron higher oxide gives brown film. In the first two stages the product gives conversion and protection and in the last two stages the product gives protection.







Jar Cellulose New Generation Protective Coatings based on Nano technology



Protective Coatings for Concrete, Pillars, Walls, Metal structures, Wood, Waterproofing



COMPARISON CHART WITH BIOGUARD METAL & OTHERS

BIOGUARD METAL	OTHERS
1. Neutral pH	1. 2 to 3 (Acidic)
2. Prevent rusting (convert & protect)	2. Support rusting (only physical covering)
3. Non-toxic, Ecofriendly, Biodegradable & Green Product	3. Toxic
4. Cost Saving (50%) due to less labour, no thinner usage & primer. (Cost of 12 sq.mtr Rs. 1300/-)	4. Expensive due to more labour, thinner, primer & paint usage. (Cost of 12 sq.mtr Rs. 2600/-)
5. Salt spray durability - 500 hrs. (Increase the life by more than double)	5. Salt spray durability - 30 to 60 hrs. (Less durable)
6. Pull out strength 7.2 to 7.4 ton (more durable)	6. Pull out strength 2.5 to 3.0 ton (less durable)
7. High fire resistance	7. Inflammable
8. Anti paracyte, UV resistant, Anti fouling & Anti microbial coating.	8. None

Actual demo of Bioguard metal







Jar Cellulose New Generation Protective Coatings based on Nano technology

International Test Results for Bioguard Metal





Intertek India Private Limited

DMsion : Commoditios Interials House, "F" wing, Tex Centra, 29-A, Chandrall Farm Road, Off. Sall Vihar Road, Andheri (East), Mumbel - 400 072, India. Tal : +91 22 42499100 -Fax: +81 22 424990700 -Fax: +81 22 42499100 -

LABORATORY REPORT

Sample Received Date: 10.02.2015

Report No.: MUM/379/2015

M/s. JAR CELLULOSE & COATINGS., No. 27, Royal Park, Nawre Nagar, Ambemath (E)

For the Attention of

Mr. Jagannath Nair

Sample(s) received fro

JAR CELLULOSE & COATINGS.

Sample(s) submitted as

Bio guard metal

Donosistis del se t els etc.

Seals on Sample(s)

: None

The above sample(s) was/were examined as detailed below and the following results obtained:

Please refer attached sheet for analytical results

LABQA

GA 538 PORE NO. OF BISHE DATE: GLOCARD

An ISO 9001: 2008 Organisation Regd. Office: E-20, Block B1, Mohan Co-operative Industrial Easte, Mathurs Road , New Dehi - 150044, India



Valued Quality, Delivered

Test result

Based on the experiment conducted in the laboratory as per the OECD 203 limit test on the sample (Bio guard metal) and is tested for acute toxicity to fish, Guppy (Poecilia reticulate) in a 96-hour limit test, the material displayed no acute toxicity to Guppy. Therefore, the sample is considered non-toxic to aquatic organisms on an acute basis (LC50 >100 mg/L) and based on the result, the sample (Bio guard metal) use as a protective coating for metal is considered eco-friendly/green/toxic metal free.



This report release specifically to the sample(s) that were drawn and I or provided by the client or their nominated third party solely for lessing. The reported results) provide no worranty or verification on the sample(s) representing any specific goods and I or otherwise all only visuals to the semple(s) as secored and ideal. This report has pinpaged solely for the use of the disent harmed in this report. Interest disclaims any and all aliastify for demage or injury which results in the use of the information combined therein and accounts on responsibility for any loss, desirable or institute of by a thing party as a releast of any responsibility to any loss, desirable or institute of by a thing party as a releast of any responsibility to any loss, desirable reliable to a thing party as a releast of any responsibility to any loss.

VERON OF SERVICE DATE: 01'02' DESCRIPTION OF SERVICE DATE: 01'02'0010



Test Results

In the present test, the sample (Bio Guard Metal) from Jar Cellfulose and Coating Pvt.Ltd. was evaluated for biodegradation. In .26 days, the sample (Bio guard metal) demonstrated >70% biodegradability. The test sample demonstrated readily biodegradability as per the OECD 301B test. The sample (Bio guard metal) contains biodegradability as per the OECD as analysis of Bio guard metal showed the insignificant presence (* i ppm) of heavy metals and presence of nutrients (Table 2). The residue of Bio guard metal sample collected after biodegradation shows different types of microbes ie. Bacteria, Protozoa, Metazoa & Filamentous bacteria (Figure 8). Based on test conducted, the submitted sample (Bio guard metal) found to be biodegradable/eco-chiendly/green/toxic metal free.





Figure 8: Residual sample collected after blodegradation of

Driversh D Jadia Environment Scientist

INFOOTHER'S Scientist:

4.6. This report unwakes specificaty for for symplects) this were drawn and if or provided by the client or their nominated third party solely for testing. The reported result/surgical in our warrants or verification on the samplesh representing any specific goods and for simplement and only silents to the samplesh, as received and tested. This report was prepared solely for the use of the client named in the report interests disclaims any and all fability for strange or nutry which results in the use of the information contained here: and accepts no exeptionability for many loss, demange or fability softweet by a shirt party as a result of any relation upon or use of this.

report

QA 338 ISSUE NO.: 03 ISSUE DATE: 01.02.2010



Bio guard Wood

BioGuard Wood [®] is a Synthetic Co-polymer protective coatings for all types of Wood. A Bio-degradable formulation which protect substrate from bio-degradation, Water, Fire and Termites and thereby enhancing life of the Wooden Substrate.

Application: For all Wood Surfaces used in Furniture, construction, Shipping etc.

Features & Benefits.

- Protects Wood from Bio-degradation & increase life by double savings in cost.
- Nano-technology coating penetrates deep in to the material sustained performance.
- Anti-fungal, Anti-microbial, and Anti-paracycte Coating s Environmental Protection.
- Coverage more than 20% Lowest Cost-in-use.
- Bio-Degradable / VOC free : Enhanced Carbon foot-print.



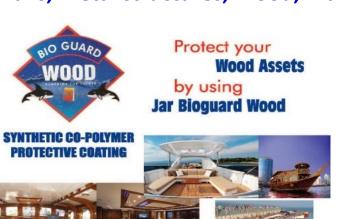




Jar Cellulose New Generation Protective Coatings based on Nano technology

Protective Coatings for Concrete, Pillars, Walls, Metal structures, Wood, Waterproofing





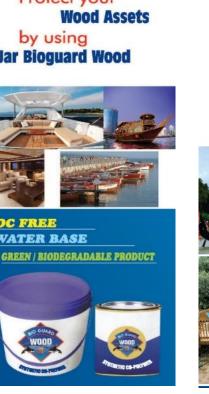
VOC FREE

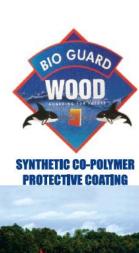
WATER BASE



- Protect wood from Bio-degradation and

- verages more than 400% compared to













Actual demo of Bioguard wood





Jar Cellulose New Generation Protective Coatings based on Nano technology











JALSEAL – Water Seepage Solution



Jalseal is a water base thin load bearing anti-fungal, anti-microbial, UV Resistant & single Component Self Curing Synthetic nano elasto coating.

Application: Construction – Walls protection from Leakages, seepages and Water bubbles

Features & Benefits.

- Non-Solvents & non-flammable Safe to use.
- Ready to use & Fast Curing Faster Productivity.
- Brush & Roller Application Easy to Use.
- Coverage more than 15 to 20 % Lowest Cost-in-use .
- Clear Coating with Scratch-free, anti-fungal, anti-microbial &
 UV resistant Fresh Feel wall for many years.



Jar Cellulose New Generation Protective Coatings based on Nano technology

Protective Coatings for Concrete, Pillars, Walls, Metal structures, Wood, Waterproofing



USES

- ▶ Interior / Exterior.
- Swimming Pool, Fountains & Water Features.
- ▶ Industrial, Commercial, Residential.
- ▶ Kitchen, Food Processing Area.
- ▶ Terrace, Balconies, Bathroom.... etc.





SALIENT FEATURES

- ► Safe No solvents and non flammable.
- Ready to use product / fast curing.
- Easy brush / spray application.
- Clear Coating with scratch free antifungal, antimicrobial & U/V resistant property.
- ▶ Waterbase / Odorless.
- Single Component / Highly Durable.
- ▶ Highly resistant to abrasion & chemicals.



Jar Cellulose New Generation Protective Coatings based on Nano technology



Protective Coatings for Concrete, Pillars, Walls, Metal structures, Wood, Waterproofing



HeatGuard is a Water based thin load bearing Anti-fungal, Anti-microbial, UV resistant & Single Component self curing synthetic organo metallic coatings









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Protective Coatings for Concrete, Pillars, Walls, Metal structures, Wood, Waterproofing



SALIENT FEATURES

- Reduces the Temperature by 5 to 6 degree C
- Prevent External Water Leakages
- Safe No solvents & non-flammable
- Ready to use product / Fast Curing
- Easy brush / spray application
- Clear Coating with scratch free antifungal, antimicrobial & UV resistant property
- Water base / odorless
- Single Component / High Durable
- High resistant to abrasion & chemicals



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Protective Coatings for Concrete, Pillars, Walls, Metal structures, Wood, Waterproofing





This report relates specifically to the sample(s) that were extent and it or provided by the cleant or their non-remoid that packy to bearing. The reported result(s) provides an extention or the sample(s) representing any specific pools and its provides and the sample(s) representing any specific pools certain and in this report testered declares any and all liability for damage or rejudy which results in the use of the certain sample in this report. Itservice declares any and all liability for damage or rejudy which results in the use of the serior contained herein and accepts no responsibility for any loss, damage or liability suffered by a third party as a result of any relations on one use of this report.



Rangbhar – Interior and Exterior Paints







Rangbhar – Interior and Exterior Paints

Ranghbaar range is a water proofing paint for both interior /exterior and has got Jalseal property of sealant with excellent coverage areas more then 15 to 20 % as compared to any other Paints.

Application: Construction – Washable paints for both interior and exterior comes with 36 shades of colour

Features & Benefits

No-Solvents & non-flammable — Safe to use.

30% Jalseal property – protection from seepage – saves costs for re-paint.

Brush & Roller Application – Easy to Use.

Coverage more than 15 to 20% compared to any other brand- Lowest Cost-in-use. Scratch-free, anti-fungal, anti-microbial & UV resistant – Fresh Feel wall for many years.

Nano-coating requires 2 coat / 3 coat if required – reduced ambient temperature by 4 deg C to 5 deg C – Saves Energy & Cool rooms.









COMBINATIONS

COMBINATIONS



Rangbhar

Interior & Exterior

Paints









Thank You

We look forward to further discussions on our portfolio and to serve you in the near future.

Warm regards, Murali Narasimhan Managing Partner

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