

ISO 9001:2015, 14001:2015, 45001:2018 &  RoHS Certified

SMG CoateX

A Chemistry For Performance

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DO REX

Technical Data Sheet -TDS

DO REX is a clear coat product. Purely on water based chemistry. So, 100% feasible for food grade vessels. With tested & verified. The application is either by spray or by dip coating both. It has excessive pencil hardness with top most glossy finish.

Most commonly used on Brass, silver & Copper vessels & articles. For extra life performance of imitation jewelry, it is used as double coating with Dipping process.

It is outstanding suited for the production of waterborne high-quality white and colored one-coat finishes or top coats with good weathering resistance for industrial applications as well as for performance with aesthetic look. For film formation is cross linked with amino resins suitable for aqueous systems. Stoved coatings stand out because of their high film hardness balanced with extraordinary good flexibility, as well as excellent water and solvent resistance. The adhesion to substrates like Gold, Silver iron, aluminium, brass, copper and to galvanized surfaces is very good.

PRELIMINARY PRODUCT INFORMATION TYPE

Acrylic modified, saturated polyester resin in aqueous emulsion with incorporated catalyst.

FORM OF DELIVERY (FOD)

Nonvolatile solids – 35%

Dipping Application Instructions

1. It is anti-corrosive dip coating used for silver jewelry & articles. Also for Rose gold plated items.
2. Pre washing of the substrate is essential. Substance must be clean and free from acid or any kind of Oily substances.
3. For silver / Rose gold plated items add DO REX at the ratio of 30 : 70 De mineralized water (DM Water). And oven curing at 125⁰/c for 30 minutes.
4. It can be used at different ratios for different metals such as – 30:70 , 50:50 , 60:40 , 70:30 And Oven curing at 150⁰/c for 50 minutes Or more. With trial & evaluation of results.
5. You have to adjust the working parameter as per trials.
6. For Dye Gold jewelry with oven stoving at 150⁰/c for 50 minutes.
7. **The product is 100 % food grade.**
8. The PENCIL HARDNESS is 7H at maximum ratio. For extra PENCIL HARDNESS adjust your ratios & temperature degree & minutes. The maximum temperature applicable is 300 degree and time 1 hour. No burning found in the coating.
9. Coating Thickness - 7 micron dipping at 80:20 ratio.
10. Dual coat can be applied, with the repetition of above process. The coating thickness will increase parallel to other positive properties.
11. After coating put the subs tract in open air for water rinse & leveling.
12. Proper storage keep it in the air tight container when it is not used.
13. Strictly avoid any kind of solvent or foreign substances.

Spray Application Instructions

1. It can be spray also, with a normal spray gun.
2. To maintain the viscosity, use De mineralized water. Spraying viscosity must be around 19 to m/sec.
3. With spray the coating thickness can be enhanced.
4. Dual coat is applicable.

REMARK:

Data contained in this publication are based on careful investigations (and are intended for information only). Due to scale up of this product there is not yet sufficient experience concerning serial

production. We can therefore not exclude, that based on future knowledge product data and other indicated properties in upcoming Technical Data Sheets will be subject to change. We reserve the right to leave the product name unchanged, even if product data or other indicated properties will vary from the present product info. Regardless of the data contained in this publication any user is obliged to carry out tests under his own responsibility as to the suitability of the product for a particular use and to investigate the possible violation of industrial property rights of third parties. Information is therefore not binding and cannot be construed as guaranteeing specific properties of products. We apply our General Sales conditions.

TENTATIVE PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity [mPa.s] 500 – 4000 (10 1/s; 23 °C)

pH-Value DIN ISO 976

pH-value 7,5 - 9,2 adjustment of pH value

Non-Volatile Matter DIN EN ISO 3251

non-volatile matter [%] 34 – 36 (1 h; 125 °C; 1 g)

Not continually determined:

Colour / Appearance VLN 250

colour dull white, appearance opaque

Density (Liquids) DIN EN ISO 2811-2

density [g/cm³] 1,06 approx. (20 °C)

Flash Point (Pensky-Martens) DIN EN ISO 2719

flash point [°C] > 100

STORAGE

At temperatures up to 25 °C storage stability packed in original containers amounts to at least 180 days. Synthetic resins containing water may freeze or get inhomogeneous at temperatures below 0 °C. By this the product will not suffer any damage, but the necessary regeneration requires extended heat treatment at 40 - 50 °C with continuous stirring. It is therefore recommended to ensure frost proof storage of such products. Lowest storage temperature: - 3 °C



KANHA TESTING LABS PVT. LTD.

(NABL ACCREDITED LABORATORY)

(CIN : U93000HR2013PTC048202)

407/7-E, Kadipur Industrial Area, Near Rao Service Station, Opp. Sector-10, Gurgaon - 122 001 (Hr.)

E-mail : kanhatestlab@gmail.com, Website : www.kanhatestlab.com

TEST REPORT

Report No. : 78774

Issue Date : 29-Jun-2019

TC652219000007755F

Customer Name : SMG Coatex, N.H.-8, Industrial Area, Gunjol, Nathdwara-313301 (Raj.)

Job Order No. : 19F0219-8

Sample Recd. Date : 25-06-19

Sample Reference : Pannel no.- 8, Glaxo / DUREX

Testing Start Date : 26-06-19

Testing End Date : 29-06-19

TEST RESULTS

Salt Spray Test:- (Test Method as per ASTM B117-2016)

Test Method : Tested in accordance with ASTM B117-16 standard practice for operating Salt Spray apparatus

Test Apparatus : Salt Spray chamber

Type of salt used : NaCl (M.W.58.44) with minimum assay 99.7%
Total impurities <=0.3%

Water : Conforms as per specification IS:1070 requirements

Sample condition :- Coated

Test Condition:-

S.No.	Parameter	Actual
1	Sample Loading time/Date	09.30 AM/26-06-2019
2	Sample unloading time/Date	09.30 AM/29-06-2019
3	Salt Sol. Conc.	5% wt
4	Chamber Temp.	35+/- 2°C
5	pH of fog Solution	6.5 to 7.2
6	Fog Collection	24 - 48 ml/24Hrs
7	Test Duration	72 Hrs.

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Checked By



Authorised Signatory

Sample Collection Centre - Neemrana

Address : Janak Singh Pura, NH-8, Near Chinnar Hotel, Opposite - Japanese Zone, Neemrana (Raj.) Cont. No. 08510061316

Technical Division - 9911137125, 8510061315, 319 Marketing Division - 8510061317, 318, 320, 321, 116 Customer Care - 0124 - 2372456



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Nathdwara-313301 (Raj.)

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Sample Recd. Date : 25-06-19

Testing Start Date : 26-06-19

Testing End Date : 29-06-19

TEST RESULTS

SALT SPRAY TEST :- (Test Method as per ASTM B117:2016)



BEFORE TEST



AFTER 72 HRS.

OBSERVATION:-

Within 24 Hrs. :- No White Corrosion No Red Rust Observed
Within 48 Hrs. :- No White Corrosion No Red Rust Observed
Within 72 Hrs. :- Red Rust Observed

End of Results

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TC - 6522

J.S. YADAV
Exe-Op.

Authorised Signatory

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Address : Janak Singh Pura, NH-8, Near Chinnar Hotel, Opposite - Japanese Zone, Neemrana (Raj.) Cont. No. 08510061316

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KTL-QF-01 For Term & Condition P.T.O.



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E-mail : kanhatestlab@gmail.com, Website : www.kanhatestlab.com

TC652219000007755F

TEST REPORT

Report No. : 78774

Issue Date : 27-Jun-2019

Customer Name :

SMG Coatex, N.H.-8, Industrial Area,
Gunjol, Nathdwara-313301 (Raj.)

Job Order No. : 19F0219-8

Sample Recd. Date : 25-06-19

Sample Reference :

Pannel no.- 8, Glaxo / DUREX

Testing Start Date : 25-06-19

Testing End Date : 27-06-19

TEST RESULTS

Coating Thickness Test:- (Test method : IS 101 (Part 3/Sec.2)-1989)

Sr. No.	1	2	3	4	5	
Result	5	6	6	7	7	Micron

Average Coating Thickness = 6 Micron

End of Results

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Technical Division - 9911137125, 8510061315, 319 Marketing Division - 8510061317, 319, 320, 321, 116 Customer Care - 0124-2273452

Material Safety Data Sheet - MSDS

IDENTIFICATION

Product Name: DO REX

Synonyms: None

Chemical Family: Alkylated melamine resin

Molecular Formula: Mixture

Molecular Weight: Mixture

Intended/Recommended Use: For surface coatings

FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

Eye Contact:

Rinse immediately with plenty of water for at least 15 minutes. Obtain medical attention immediately.

Skin Contact:

Wash immediately with plenty of water and soap.

Ingestion:

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Inhalation:

Remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

None known

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Not applicable

PHYSICAL AND CHEMICAL PROPERTIES

Color: dull white

Appearance: liquid

Odor: formaldehyde and isobutanol

Boiling Point: 108 °C 226 °F (value for isobutanol)

Melting Point: Not applicable

Vapor Pressure: 10mm Hg @ 30 °C (value for isobutanol)

Specific Gravity/Density: 1.2 g/cm³

Vapor Density: 2.55(air = 1)

Percent Volatile (% by wt.): 8 - 12

pH: Not applicable

Saturation In Air (% By Vol.): Not applicable

Evaporation Rate: Not applicable

Solubility In Water: Complete

Volatile Organic Content: Not available

Flash Point: 44 °C 112 °F Closed Cup

Flammable Limits (% By Vol): Lower: 1.2 Upper: 10.9(values for isobutanol)

Autoignition Temperature: Not applicable

Decomposition Temperature: Not available

Partition coefficient (noctanol/ water):

Not available

Odor Threshold: Not available

Viscosity (Kinematic): Not available

DISPOSAL CONSIDERATIONS

The information on RCRA waste classification and disposal methodology provided below applies only to the product, as supplied. If the material has been altered or contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Hazardous waste classification under federal regulations (40 CFR Part 261 et seq) is dependent upon whether a material is a RCRA "listed hazardous waste" or has any of the four RCRA "hazardous waste characteristics." Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA "listed hazardous waste"; information contained in Section 15 of this MSDS is not intended to indicate if the product is a "listed hazardous waste." RCRA Hazardous Waste Characteristics: There are four characteristics defined in 40 CFR Section 261.21-61.24: Ignitability, Corrosivity, Reactivity, and Toxicity. To determine Ignitability, see Section 9 of this MSDS (flash point). For Corrosivity, see Sections 9 and 14 (pH and DOT corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 3 (composition). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed. The Company encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste. The Company recommends that organic materials classified as RCRA hazardous wastes be disposed of by thermal treatment or incineration at EPA approved facilities. The Company has provided the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method.

Note :- The information set forth herein is furnished based on technical data that SMG COATEX believes to be reliable. It is intended for use by person having technical skill at their own risk. Because condition of use are outside our control. We make no warranties. Express or implied and assume no liability in connection with any use of this information. Nothing herein is to be taken as licenses to operate under or a recommendation to infringe any patent.