



Zahabiya Chemical Industries

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## PRODUCT DATA

### Zahabiya TS - 14

### TRANSPARENT SEALER

(Special TS-141/Ex-Special TS-142 / Std. TS-143)

#### PROPERTIES:

##### COLOUR

Water white/Transparent; (on long storage colour of ZTS-141 may slightly change.)

##### ODOUR

Solventy smell in liquid state. However, dried film is odourless.

##### CONSISTENCY

Free flowing liquid, suitable for application by Coating, Brushing, Dipping or Spraying.

##### SPECIFIC GRAVITY

Ranges with the quality/grades selected, averaging in standard batches: 0.97° to 1.00° Baume' at 25°C.

##### NON VOLATILE CONTENTS

Non Volatile contents averages between 23 % to 25% by W/V in standard batches. (ASTM- D 1644-88)

Solid contents variable in tailor made Specific Grades as per end use.

##### DRYING/SEALING

**ZTS-14 dries in a glossy invisible clear film** within 10 minutes and cures within 12 hours. The drying process is directly affected with the atmospheric humidity. For fast curing, proper ventilation is a must, as needed in **FLOOR COATING** jobs.

**ZTS-141, HEAT SEAL COATING GRADE** meant for **BLISTER PACKAGING** may be subjected to air circulatory oven at the temperature range between 100°C to 110°C for up to 20 seconds, for better sealing/bonding (ASTM-D-1640-89).

##### SERVICE TEMPERATURE

Can be used between 10 °C to 80 °C. (The temperature being of the surface to be applied up on)

##### COMBUSTIBILITY

FLAMMABLE in liquid state. FLASH POINT BEING 39°C. (ASTM-D-3278-82)

##### SAFETY

The dried (cured) film is **NON-TOXIC, NON-CORROSIVE & NON-POISONOUS** in handling and contact.

**For Food Packaging Cans:** SPECIAL FOOD GRADE TRANSPARENT SEALER (ZTS-141/142) are applicable.

##### CHEMICAL BEHAVIOUR

The dried (Cured) film is insoluble in White Spirit, Turpentine, Petroleum, Mineral Oils, Gasoline, Kerosene, Fats, Greases, Dilute acids/Alkalis and Water. On prolonged contact with water, the film may absorb about 1-2% water, which will be evaporated again when allowed to dry perfectly leaving the dried film as before.

##### APPLICATION

Applied on thoroughly cleaned dry surface by smooth clean brush, through pressurised spray system, dipping process and through Roller Coating methods.

##### COVERAGE

Normally for standard batches, through roller coating, the flat surface covering area (Non-Porous) estimated is minimum 16.7 Sq.Meter per Kg.(160 Sq.Ft.). The coverage is directly proportionate to the Porosity/Texture of the surface, mode of application and the prevailing atmospheric conditions.

##### DILUENT

Avoid dilution. PREFERABLY use as supplied for the specific use. If necessary, dilute with Butyl Acetate, Xylene or M.E.K.

##### CLEANING

The cured coated surface (FLOOR SEALING & COATINGS etc.) may be cleaned of stains by soaked rinsed cloth with mild soapy water, or S.M.T. (White Spirit).

##### STORAGE

To be stored in a cool well ventilated place in original sealed containers. Use within 15 months of manufacturing.



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(Special TS-141/Ex-Special TS-142 / Std. TS-143)

#### INTRODUCTION & USAGE:

Zahabiya **TRANSPARENT SEALER (ZTS-14)** is a VINYL / ACRYLIC CO-POLYMERIC solvent based product usable for Industrial & Commercial sealing problems **wherever neat & clean leakage repairing or surface protection is required.** It is clear adhesive sealer especially **usable to fill-up and seal minute pores/pin holes, hairline cracks** and minor Leakages of liquids & oxidising gases. ZTS-141 & ZTS-142 are beneficial to protect the applied surfaces (porous / non-porous) esp. metallic surfaces from oxidation/ rusting / corrosion / erosion. ZTS-142 is formulated as anti-static floor sealer and wood preservative lacquer/sealer. **It dries up into a clear, transparent, strongly bonded glossy sealed film.** The bonding and sealing properties are excellent on proper drying/curing, on both the porous or non-porous surfaces. **The protective film so formed on curing becomes tough but non-cracking, shock, impact, abrasion, weather and U/V resistant.**

All these clear sealers may be pigmented as desired, into glossy protective paint coat by mixing dry acrylic/ polyester pigments or liquid P.V.C. ink of standard quality.

#### ENGINEERING & ALLIED INDUSTRIES:

**Zahabiya Transparent Sealer TS-141 is usable as the lacquer/sealer in the field of sheet metal fabrication to protect the surface from oxidation/rusting/corrosion for ferrous or non ferrous materials.** After welding of parts / sheet metal it is advised to be applied on to save from oxidation. **Specially suitable for saline and humid atmosphere as in Ship building or maintenance.** To make the leakage free seams & joints with vapour barrier properties, this sealer is ideal and economical. Tailor made modified grade of **TS-141** is also being used in **Electrical Motor Winding** jobs as the insulant adhesive sealer. The product must be checked for its suitability depending the current intensity and thickness of dried film.

#### AUTOMOBILE INDUSTRY:

**Zahabiya Transparent Sealer TS-141/TS-142** is useful as the clear sealer coat esp. at under body sealing areas to protect from rusting and as the protective primer coat, resisting weather variations. Also applied on all close joints as vapour barrier, water proof, non-rusting lacquer. Best for inside/outside protective coating of fuel tanks to guard against rust/corrosion.

#### FOR WOOD WORKING:

**Zahabiya Transparent Sealer TS-142** is excellent for **wood preservation and as the clear glossy Water Proof protective lacquer coating** possessing polishing effect. The cured coat is unaffected with atmospheric humidity and showering. Suitable for exterior/interior polishing replacing the use of spirit polish which is not weather resistant. **Best for coastal areas construction maintaining the natural wood texture.**

It penetrates the surface of wood, creating a film bonding, hence preventing decay or deterioration of wood and in fact the wood surface remains the same and only the grains open up for the textured finish. **It keeps the surface of wood natural,** longer as it will not alter the colour, texture or other characteristic of wood. **It seals, weather proofs, water proofs,**

**hardens and preserves most wooden products.** It retards penetration of grease, oil and dilute acids, seepage, dampness, mouldings, fungus and weather destruction.

**ZTS-143,** the economical grade, is applied for the preservation & protection of wood, where low gloss/ shine is desired.

#### METAL CONTAINER INDUSTRIES:

**Zahabiya Transparent Sealer TS-141** is specially beneficial for **patching-up the tiny Pin holes, Seepage or leakages** during or after the fabrication of Metallic Containers, Drums/Barrels and Auto-Filters etc. from top, bottom or side seam. **As a side seam welding protection lacquer to seal the surface as well as to protect from oxidation/ rusting/corrosion for Paint/Varnish, Pesticide/Insecticide & Food Cans** ZTS-141 (Special) is recommended.

#### HEAT SEALING/LAMINATION:

**Zahabiya Transparent Sealer TS-141 (Heat Seal Grade)** is manufactured for heat sealing usage, having high gloss & better adhesion properties for **Blister Packaging** system of consumer products including food packs enclosed in the rigid P.V.C. (shell) top cover blister film. It is evenly applied by smooth synthetic rubber roller system on printed or un-printed box / paper board and dried in air circulatory oven at about 100°C for up to 30 seconds and then cooled at room temperature. The hot curing time for the coated sealer is adjusted according to the texture of the board and by experience, thickness of the P.V.C. sheet to have an appropriately thick film coat for **BLISTER PACKAGING.**

In some cases especially for heavy items to be enclosed in the blister (shell) pack, it is advised to have a second coat. The average sealing time for blister packing is 5 seconds. The strength (peeling) must be tested after 2 hours of the sealing/bonding. The film thickness has to be adjusted according to the porosity of the printed surface & compatibility of the inks used. When used as the Blister Packaging Adhesive, the normal film weight of 6-8 grams/sq. mtr. is recommended.



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#### CIVIL CONSTRUCTION/MASONRY:

Zahabiya TS-141 is very effectively coated (2 Coats) on previously well cleaned, dried exposed iron/steel bars and structures, non ferrous oxidizing metals etc. **to protect from harmful effects of atmospheric variations and humidity** preventing further oxidation, rusting & corrosion. Particularly specified during civil construction and structure fabrication **to save iron/steel/ aluminum from oxidation and corrosion** where relative humidity exceeds 75% esp. at coastal and continuous water showering areas.

Zahabiya TS-142 is usable as the **floor adhesive sealer, dust proofer, seamless membrane and floor hardener** on many types of traditional floors including R.C.C. surfaces, terrazzo, mosaic & tiled floors. Applied in at least two uniform coats on the previously well cleaned surfaces as the weather/ water resistant protective seal coat on Marble, Ceramic Tiles & Terrazzo surfaces. Is being used with best results, as an invisible, neat & clean sealing material as also on various porous surfaces. Where more glossy/shiny surface is desirable third undiluted coat may be evenly applied when the second coat is fully dried.

Zahabiya TS-142 Special Coating Grade is **also recommended to protect the Floors of Garages, Ware Houses, Production Halls, Car parking Areas, Hotels, Pharmaceutical Factories, Gymnasiums, Public Halls, Laboratories, Kitchens etc., as far as transparency and skid-free requirements are concerned** in these places. When applied in two uniform coats, will save the flooring from dust accumulation, oil stains, due to the spillage of common chemicals etc. for hygienic behaviour. The coated surface will be glossy but non-slippery, neat & clean. Wax polishing is not essential, however could be done if desired but some times this may result the surface slippery. The surface so protected will not be damaged by normal wear and tear. Avoid sharp objects and iron wheel trolleys on such coated floors. Black coloured rubber/ EVA shoe soles, automobile tyres may some times cause friction marks in black or dark colour which may be cleaned by turpentine (SMT) or gasoline.

**NOTE: It is advisable to use rubber/fibre wheel trolleys on coated warehouse and factory floors to maintain the sealed surface obtaining long lasting results.**

#### *For Quality usage*

**WHILE ORDERING, PLEASE MENTION ABOUT THE INTENDED USE SO AS TO SUGGEST THE MOST APPROPRIATE GRADE.**

*IMPORTANT NOTICE: The Information & Data contained herein are correct to the best of our knowledge, tests and experience. These are presented in good faith to the users for their guidance. The recommendations and suggestions mentioned are made without guarantees or representations as to the results. The Consumer should satisfy himself as to the suitability of the product for the intended purpose and use. WE ASSUME; NO LIABILITY for damages of any kind and the user accepts the product 'as is' and without any other warranties, expressed or implied. Our Warranty is limited to the replacement of proved defective Zahabiya product only, provided used within shelf life as supplied originally*

Zahabiya TS-143 (Integrated Penetrative Sealer) is low gloss penetrative coating manufactured for sealing and protection of highly porous surfaces advisable to be coated on fair face concrete surface, clay bricks & tiles etc. to protect and make weather & water proof, the places applied on. Its application on fair face concrete will additionally **enhance the wet appearance and fresh look of the exposed aggregates** and will prevent from erosion/ any possible chipping of the marginal sides & corners also being water repellent, protects the surface from chlorination and carbonation effects. (Refer our separate Product Data)

Best for coastal areas application, maintaining the natural fresh look of concrete, bricks, stone, pavements, wood etc.

#### **Application Procedure TS-141/142 for Floor Coating purpose:-**

1. Clean the floor surface thoroughly with any suitable detergent solution. Mop wipe again with clean water.
2. Dry the floor perfectly for at least one day thereafter. Floor must be moisture free.
3. If the surface is oily or greasy, clean it with Mineral Turpentine, Toluene or Ethyl Acetate.
4. Apply first coat of TS-141/142 Special (previously diluted and well mixed with 10% by volume of Butyl Acetate or Xylene) with clean synthetic rubber roller, which must be resistant to solvents.
5. Apply 2<sup>nd</sup> coat "as it is" preferably in uniformly smooth layer, after 4-6 hours of 1<sup>st</sup> coat application. If dilution is unavoidable, for smooth coating, dilute with 5-7% solvent and mix thoroughly before use.
6. Apply 3<sup>rd</sup> coat "as it is" in uniformly smooth layer, if more gloss is required.
7. Protect the applied surface with dust of all sorts for at least 24 hours of application. Use the floor after 48 hours preferably after last coat.
8. Do not clean the coated surface with plenty of water every now and then. When essential, use only soap soaked rinsed mopping cloth for cleaning, reason being the dust does not stick on the coated floor.
9. Although, not necessary, if wax polishing is desired on coated surface, it can also be done, but some times after waxing the floor may not be skid free (non-slip).
10. **Caution:- Use the product in adequate ventilation.**

Protect from Fire Hazards, ensure safety measures and "No Smoking" environment.