



ISO 9001:2000  
Certified Company

# Zahabiya

## TRANSPARENT SEALER TS - 14 (Special TS-141 / Ex-Special TS-142)

Zahabiya TRANSPARENT SEALER (TS-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 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-141/ 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.

Both 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, but only after testing their compatibility with TS-14.

COLOUR:	Water white/ transparent. The film is completely transparent on drying.
ODOUR:	Solvent like smell in liquid state. However, dried film is odourless. [ASTM D1833]
VISCOSITY:	65cp (Brookfield DV-II, Speed 100 RPM, Spindle 01, 25°C) [ASTM D2556]
DENSITY:	1.00 kg/litre at 25°C. [ASTM D1475]
NON VOLATILE CONTENTS:	Non Volatile contents averages 19%. [ASTM D1644]
DRYING:	Surface Dry: 5 minutes [ASTM D1640] Tack Free: 6 minutes Hard Dry: 7 minutes Curing continues for further 12 hours and can be accelerated by drying at elevated temperatures. Please note since the product is Flammable, the wet layer should not be exposed to direct fire source.
HARDNESS:	2 ½ HB leaves the film uncut, no scratch, no crumble. [ASTM D3363]
FLEXIBILITY:	No fracture, cracking or loss of adhesion on 12.6mm Mandrel, at 30°C. [ASTM D3111]
SERVICE TEMPERATURE:	10°C to 80°C, the temperature being of the surface to be applied on.
CHEMICAL BEHAVIOUR:	The dried (Cured) film is insoluble in White Spirit, Turpentine, Petroleum, Mineral Oils, Gasoline, Kerosene [ASTM D5402], 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 leaving the dried film as before.
FLAMMABILITY:	FLAMMABLE in liquid state. Flash Point: 39°C [ASTM D93]
SAFETY:	Due to high volatility, the product must be used in well-ventilated areas, away from direct fire source. The dried (cured) film is NON-TOXIC, NON-CORROSIVE & NON-POISONOUS in handling and contact.
DILUENT:	Avoid dilution. PREFERABLY use as supplied. If necessary, dilute with Butyl Acetate, Xylene or M.E.K.
COVERAGE:	For standard batches, the coverage on flat non-porous surface is about 16 m <sup>2</sup> /kg (150ft <sup>2</sup> /kg) for roller coating applications. The coverage depends greatly on the porosity/ texture of the surface, mode of application and prevailing atmospheric conditions.
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).
APPLICATION:	Can be applied on thoroughly cleaned and dried surface through smooth clean brush, pressurised spray system, dipping process and Roller Coating methods.
STORAGE:	To be stored in a cool well ventilated place in original sealed containers. Use within 12 months of manufacturing. Zahabiya TS-141 may yellow with time, but the overall properties remain the same, provided used within shelf life.

This protective lacquer finds various applications including:

1. Wood Working and Carpentry as a wood preservative and clear glossy waterproof protective coating with the cured layer being unaffected with atmospheric humidity and showering.

Suitable

- a. Suitable for water resistant exterior/ interior polishing.
- b. It seals, weather proofs, water proofs, hardens and preserves most wooden products.
- c. Best for coastal area constructions maintaining the natural wood texture and appearance.
- d. It penetrates the surface of wood, creating a bonded film, hence preventing decay or deterioration of wood.
- e. Opens up the grains of the wood creating textured finish, keeps the natural look of the wood surface longer as it will not alter the colour, texture or other characteristic of wood.
- f. Retards penetration of grease, oil and dilute acids, seepage, dampness, mouldings, fungus and weather destruction



Shiny Protective Coating of TS-14 on wood gives weather resistant ever-fresh look to the surface.



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2. Engineering & Allied industries 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.
3. Electrical Motor Winding jobs as an insulating adhesive sealer.
4. Automobile industries as an under body sealing areas for rust/ oxidation protection.
5. Ship building and maintenance as a protective lacquer especially for saline and humid atmosphere.
6. Metal Container Industries as a pinhole sealing and side seam protective lacquer.
7. Heat Seal and Lamination applications especially in Blister Packaging.
8. Civil Construction Applications: 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. as an anti-rust coating 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/ aluminium 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 proof, seamless membrane and floor hardener on many types of traditional floors including R.C.C. surfaces, terrazzo & mosaic floors. Applied in at least two uniform coats on the previously well-cleaned surfaces as the neat & clean, weather/ water resistant protective seal coat on Wooden, Marble & Terrazzo surfaces and various porous surfaces. Where more glossy/shiny surface is desired, third coat may be applied.

Zahabiya TS-142 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.*, where transparent, skid-free floor coating is required. When applied in two uniform coats, it saves floorings from dust accumulation, oil stains, stains of spillage of common chemicals etc. for hygienic behaviour. 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 that may be cleaned by turpentine (SMT) or gasoline.

Application Procedure for Floor Coating:

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/ greasy, clean it with Petrol, 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) with clean synthetic rubber roller, which must be resistant to solvents.
5. Apply 2nd coat "as it is" preferably in uniformly smooth layer, after 4-6 hours of 1st coat application. If dilution is unavoidable, for smooth coating, dilute with 5% solvent and mix thoroughly before use.
6. Apply 3rd 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 of the 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 may render the surface slippery.

Caution: Use the product in adequate ventilation. Protect from Fire Hazards, ensure safety measures and "No Smoking" environment.

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

#### 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. 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 so proved defective Zahabiya original product only, provided used within shelf life as supplied originally.*

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