



Zahabiya Chemical Industries

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PRODUCT DATA

Zahabiya SEALING COMPOUND

ZSC-13/63 (the Seam Sealer) & ZSC-13/68 (Special T.F. Grade)

PROPERTIES:-

COLOUR:

Brownish Red/Light Gray/Pale Cream/White - **Optional on bulk orders.** (ASTM- D-1729)

ODOUR:

Slightly ammoniac smell in pasty state. (ASTM D-1833)

DENSITY:

Average density being 1.27 kg per litre for 13/63 and 1.2 kg per litre for SC-13/68 - Special (T.F. Grade) (ASTM-D1475)

CONSISTENCY:

High Viscosity Paste. (ASTM-D 2507)

TOTAL SOLIDS:

Average Solid contents for ZSC-13/63 are 71% \pm 2% as w/w. The **ZSC-13/68** contains 70% solids. (ASTM-D 1644)

DRYING:

Normally dries up at room temperature (Air Drying), but the film strength and behaviour improves greatly on stoving temperature at 125°C to 130°C for 6 minutes, in air circulatory oven.

CHEMICAL BEHAVIOUR

The dried (stoved/ cured) film or gaskety seal formed behaves as Non-Rusting, Vapour Barrier, Water & Oil Proof, Diesel/Acid/Alkali Resistant, Non-Cracking, U/V & Weather Resistant. (ASTM-D 3278)

SAFETY:

Non-Toxic, Non-Hazardous, Non-Corrosive and **safe in handling**; “*A Human Friendly/ Environmentally Acceptable Product*”. (ASTM-E-160-80)

COVERAGE:

By brush: 39 to 40 ft²/kg (3.60 m²/kg) on non-porous surface, in uniformly thick layer.

SERVICE TEMPERATURE:

Usable between 6°C to 80°C (the temperature of the surface to be coated).

TEMPERATURE RESISTANCE:

Safe between 0°C and 165°C constant temperature.

WATER VAPOUR PERMEANCE:

For perfectly dried film: 0.90 perm, for two uniformly thick coats, of 0.40” with 8 Oz. Canvas between. The Water Vapour Transmission through 1 inch of impermeable insulation in 12”x ¼’ block with joints of Sealing Compound 13/63 is too small to be recorded. (ASTM-E 398).

APPLICATION:

On clean surface by brush, trowel or mechanical dispenser.

DILUENT/CLEANER:

Cold potable water. Dilute only when most necessary. Avoid more than 5% dilution. While wet can be cleaned with water and after drying it can be de-bonded with S.M.T. (White Spirit) or Methanol.

STORAGE:

To be stored at cool / ventilated place between 20°C and 30°C, in our original sealed packing, away from direct or indirect heat. Preferably use within 18 months of manufacturing date.

FOR QUALITY USAGE:

WHILE PLACING ORDERS, PLEASE DISCLOSE ABOUT THE INTENDED USE TO ENABLE US TO PROVIDE BEST GUIDANCE AND SUGGEST APPROPRIATE QUALITY.

IMPORTANT NOTICE: The Information & Data contained herein are correct to the best of our knowledge, test and experience. These are presented in good faith to the users. The recommendations and suggestions mentioned are made without guarantee 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 replacement of proved defective Zahabiya product only, provided used within its shelf life.



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INTRODUCTION:

Zahabiya SEALING COMPOUND is an ADHESIVE SEALANT, usable wherever a thick membranous well bonded gaskety AIR TIGHT, WATER PROOF, OIL PROOF, VAPOUR BARRIER & INSULATING PROTECTIVE SEAL is required. This is an excellent SEALANT paste possessing best Water & Oil proofing properties, coupled with adhesion on metals, plastics, polystyrene, wood, cement plaster, stone and masonry surfaces. It is a thick soft paste formulated with the blend of Rubber, Resins & Polymers. Although this product is Air Drying but for better performance hot air drying is recommended. **When cured perfectly, the layer or seal obtained so is tough Water & Oil proof, Non-Rusting, Non-Cracking & resists the attacks of dilute Acids or Alkalis. At all such places where a VAPOUR BARRIER protective seal or leakage free Seams / Joints are needed; or two surfaces are to be assembled to come in contact with oily or water based products, this product is usable with satisfaction.** SEALING COMPOUND is used on non-porous or porous surfaces without any adhesion problem. It can be effectively applied on ferrous or non-ferrous metals.

USAGE IN ENGINEERING SECTOR:

Mainly used in the fabrication jobs in sheet metal work and other metallic assemblies, HVACR/Central Air Conditioning, Allied Engineering sectors and in automotive components manufacturing. It insulates well (2 Coats) and protects the metallic pipes from oxidation, rusting & corrosion, as the seam less, well bonded, water proof/ weather resistant shield for under ground or weather exposed jobs, eliminating the old conventional adhesive tape wrapping system which is a superficial covering. The coated surfaces are not attacked by saline/salty water environment or sub-soil water, chlorination & carbonation effects, preventing the oxidation, rusting or corrosion.

When to be applied as SEALANT for a Water & Oil Proof gaskety packing (seal), one uniformly rich coat is applied on both the joining faces and after **stoving preferably** at 125°C for 6 minutes on an air circulatory oven or otherwise air-drying for 24 hours, these applied under some pressure. Leave as such, untouched for about

36 hours at room temperature. The bonding of both the faces are united/coupled together. If **to be used as an ADHESIVE/ SEALANT**, apply one uniform coat on each surface to come in contact. Let these be dried for 6 hours (or stoving) and then again apply one uniform thick coat on any of these previously coated surface. After 35 minutes air-drying unite firmly bonding both the surfaces will be achieved satisfactorily, unaffected with seasonal variations. This bonding will be safe up to an intermittent temperature of 190°C & a continuous temperature of 160°C.

It is beneficially **used in Auto filters manufacturing** as an adhesive sealant, seam sealer, especially for sealing & manufacturing Air/Oil/Diesel Filters and as the **Paper to Metal Adhesive**. (Specific grades available).

USE IN CIVIL CONSTRUCTION:

For **TILE PASTING/FIXING Special ZSC-13/68-TF grade Sealing Compound** is available. This eliminates the use of Cement mixture for Tile Fixing, providing neat & clean dust free working environment. The Tiles fixed with this system remain permanently bonded, non peeling, bonding/pasting being unaffected with water, dilute acids, alkalis & seasonal variations. For satisfactory tile fixing with this ready mixed compound, select the tiles of uniform sections/thickness. Suitable for PVC tiles, Marble tiles, Ceramic tiles, wooden tiles equally. To be applied evenly one rich coat on both the previously cleaned surfaces to be pasted bonded firmly and let be dried for 6-8 hours. In case of application on damp surface, apply one extra coat being primer coat. At the time of pasting apply one rich coat on the floor, wall or desired surface and press firmly the previously applied tile after 2-3 minutes leaving un-disturbed for 24 hours. If levelling and setting of tile is required, it must be done within 5 minutes. The inter-tile gap/ grouting area is sealed with the same material as grouting compound. The tiles will be perfectly bonded, WATER PROOF and WEATHER RESISTANT.

As the SEALING COMPOUND is air-drying, please keep the original container airtight when not in use. The compound is THIXO-TROPIC so mix well before use to ensure the uniform mixing of all the ingredients.