



ISO 9001:2008 Certified Company  
"TIME TESTED PRODUCTS"  
SINCE 1972

# Zahabiya

## SOFT SEAL SPECIAL ZSP-1191

### Non-Cracking, Multi-Purpose Acrylic Caulk

**Zahabiya Soft Seal Special ZSP-1191** is acrylic based, copolymeric, high strength mastic/ adhesive caulking sealant forming a soft gasket seal on self-curing, designed to meet a variety of glazing/ caulking needs for interior & exterior use. For most applications where a non-sticky, vapour barrier, air/ gas tight, water/ oil proof, weather resistant, fast drying, non-cracking and well-bonded protective & leakage free seal is desired, this product is the perfect answer. *This is the best and safe replacement of traditional toxic silicon sealants & can be used in closed environment without emitting any bad odour or toxic fumes.* The product is safe in handling and use, being **"Human Friendly / Environmentally Acceptable"**. Available in pails and 300 gm cartridges in optional colours.

- Non-cracking, non-chalking, ever soft and flexible sealant .
- Cold/ hot/ boiling water proof; oil proof; fuel & solvent resistant.
- Vapour barrier & air/gas tight.
- Resists temperature from  $-40^{\circ}\text{C}$  to  $220^{\circ}\text{C}$ .
- Fungi, mildew and micro-organisms resistant, making it ideal for use in moist areas.
- U/V & weather resistant.
- Withstands the products with pH from 4.5 to 13.
- Non-toxic, non-hazardous in handling; non-flammable.
- Non-corrosive and non-rusting.
- Dilute acid and alkali resistant.
- Can be painted over.
- Safe for drinking water reservoirs applications.
- Safe for contact with food.
- Does not emit fumes nor adds to Air Pollution and can be safely used in even very low ventilated areas.



#### COLOUR:

Translucent, White, Grey, Bronze and Black. Other colours available on bulk orders. [ASTM D1729]

#### VISCOSITY:

Paste-type consistency. 1600cps @100 RPM, Spindle 03, 25°C. (ASTM D2556)

#### DENSITY:

1.17 kg/litre on average. [ASTM D1475]

#### NON-VOLATILE CONTENTS:

70% ± 1% as W/V. [ASTM D2369]

#### DRYING:

Air drying (Room Temperature Curing):

- Surface Dry: 15 minutes [ASTM D1640]
- Tack Dry: 35 minutes
- Hard Dry: 50 minutes

The strength further increases after 48 hours depending upon bead thickness and porosity/ absorption of the surface applied upon. However, hot-air circulation significantly enhances the curing speed.

#### VAPOUR PERMEANCE:

In thick coats (2-3 mm), the water vapour permeability of cured layers is negligible to be accounted. [ASTM E398]

#### FLEXIBILITY:

The fully cured 1 mm thick bead exhibits at least 300% elongation, measured at 35°C at R/H of 65%. (ASTM C-765)

#### COVERAGE:

Approximately 120 linear meters of 2mm bead per kg and 36 linear meters per cartridge.

#### CLEANER:

The dried product may be cleaned with S.M.T. While wet, can be cleaned by warm water.

#### SUBSTRATES:

The product has good compatibility and adhesion with various surfaces including:

- Wooden surfaces.
- Metallic surfaces including Aluminum panels & claddings.
- Plastics.
- Glass.
- Polystyrene & thermopore sheets.
- Polyurethane foams.
- Glass wool insulation.
- Masonry, plaster & R.C.C.
- Marbles, tiles, bricks, stone surfaces etc.

#### APPLICATIONS:

Very reliably used in Civil Construction field as the multi-use sealant for:

- Construction and Expansion Joint sealing.
- Filling of cracks in masonry, walls, ceilings etc.
- Roofing and cladding.
- Seismic zone constructions being elastomeric.
- Grouting of Ceramic, Porcelain, Marble & Natural Stone Tiles, especially for exterior applications.
- Fixing of Aluminum, Glass, Wooden door & window frames with masonry and filling of gaps in between.

Other than construction, ZSP-1191 is very beneficially used in the **Engineering & Fabrication jobs**, as an adhesive and seam sealer, for liquid gasketing in sheet metal works and metallic components assembly as in **Automotive Components fabrication** as the non-cracking, shock absorbing seam sealant. Useable in Freight Containers, Buses/ Trucks/ Cars body seam sealing/ gasketing with long lasting best performance.

Use as supplied. Clean the surface prior the application to remove any dust, water or greasy layer. Apply by Cartridge pack, through mechanical dispenser, clean grease gun or trowel.



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**STORAGE:**

**SHELF LIFE:**

Store at shaded and well-ventilated place at around 20°C to 35°C, in original sealed airtight containers, away from direct heat. Keep the container airtight after every use.

When stored in original sealed containers, this Room Temperature Curing (RTC) sealant has a shelf life of 2 years from the date of manufacturing.

**IMPORTANT:**

- These specifications may vary SLIGHTLY between translucent and coloured products.
- While placing orders, please discuss the intended use to GET best guidance.

### COMPARISON BETWEEN ZSP-1191 & NORMAL SILICON SEALANT

|                                       | Zahabiya Soft Seal Special                                | Normal Silicon Sealant                             |
|---------------------------------------|---|--|
| <b>Nature/Characteristic</b>          | Human Friendly, Non-Toxic, Non-polluting & Non-hazardous. | Hazardous, Toxic & Pollutant (being Acidic cured). |
| <b>Bond on damp/dry Surfaces</b>      | Excellent on both surfaces.                               | Doubtful on damp surfaces.                         |
| <b>Bond strength with time</b>        | Further improves.   | May de-bond from the surface with time.            |
| <b>Drying time</b>                    | Longer, depending upon thickness & ambient conditions.    | Shorter being Acetic cured. Deep cures faster.     |
| <b>Behaviour with metal surfaces</b>  | Non-Rusting and protects surfaces wherever applied.       | Initiates rust on uncoated Iron and Steel.         |
| <b>Compatibility to paint</b>         | Can be painted over.                                      | Cannot be painted over.                            |
| <b>Shelf Life (on normal storage)</b> | 2 years.  | 9-12 months.                                       |

**APPLICATION PROCEDURES:**

- EXPANSION / CONSTRUCTION JOINT SEALING:** Zahabiya Soft Seal Special ZSP-1191 is used along with Zahabiya Sealing Gum ZSG-12/99 for effective and economical sealing of expansion and construction joints. Please refer the technical data sheet of ZSG-12/99 for complete application details.
- CRACK SEALING:** When used for crack sealing, the product Zahabiya Soft Seal Special ZSP-1191 can be directly filled into the cracks and *no chiselling or widening of cracks is required*. Following procedure should be followed for crack filling/ sealing:
  1. Remove dust, sand and all loose particle at the application site, mechanically or manually.
  2. Wash the cleaned area with potable water and dry the surface thoroughly.
  3. Apply by brush **Zahabiya Soft Seal Special ZSP-1191** as the Primer coat, diluted and well mixed with 30% potable water all around the cracked joint surfaces up to existing depth. For highly porous & absorptive surfaces, a primer to Zahabiya ConcreMight ZUBA-16/123 diluted with equal parts of potable water is recommended.
  4. Compactly fill in the cracks with Zahabiya Soft Seal Special ZSP-1191 (pure) either by means of scraper or cartridge.
  5. The surface can be used after 3 days drying.
  6. If repainting is desired, the cracks can be painted over by **Zahabiya Water Shield ZSAC-10/55** (preferably) or any emulsion paint.

**Note:**

Zahabiya Soft Seal Special ZSP-1191 meets the requirements of ASTM C920 Type S (Single Component, Cold Applied Elastomeric Joint Sealant).



**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 sealed product only, provided used within shelf life as supplied originally.



**Zahabiya Chemical Industries**, Plot 14, Sector B-VIII, Export Processing Zone, Karachi-75150.  
Tel: +92-21-35082323/24 Fax: +92-21-35082325 Email: info@zahabiya.com, Web: http://www.zahabiya.com