



ISO 9001:2000
Certified Company

Zahabiya

SOFT SEAL SPECIAL ZSP-1191

Non-Cracking, Multi-Purpose Acrylic Caulk

Zahabiya Soft Seal Special ZSP-1191 is an 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 desirable, this product is the perfect answer. This is the best and safe replacement of traditional toxic silicon sealants & can be used in enclosed environment without emitting any bad odour or toxic fumes. The product is safe in handling and use, being a "Human Friendly / Environmentally Acceptable" Product. Available in cans/pails and also in 300 gm cartridges in optional colours.

- 1 Non-cracking, non-chalking, ever soft and flexible sealant .
- 1 Cold/ hot/ boiling waterproof; oil & solvent proof.
- 1 Vapour barrier & air/gas tight.
- 1 Resists temperature from -40°C to 220°C.
- 1 Fungi, mildew and micro organism resistant. Also best for use in moist areas.
- 1 U/V & weather resistant.
- 1 Withstands the products with pH in the range from 4.5 to 13.
- 1 Non-toxic, non-hazardous in handling; non-flammable.
- 1 Non-corrosive and non-rusting.
- 1 Dilute acid and alkali resistant.
- 1 Fuel, lubricating oil and solvent resistant.
- 1 Can be painted over.
- 1 Useable satisfactorily on the places coming in prolonged contact with water.
- 1 Safe for drinking water reservoirs applications.
- 1 Safe for contact with food. Conforms to FDA regulations for Indirect Food Contact (FDA CFR21 175.300).
- 1 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:

73% ± 1% as W/V. [ASTM D2369]

DRYING:

Air drying (Room Temperature Curing):

- 1 Surface Dry: 15 minutes [ASTM D1640]
- 1 Tack Dry: 35 minutes
- 1 Hard Dry: 40 minutes

The strength further increases after 48 hours depending upon bead thickness and porosity of the surface, applied upon. However, hot-air 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 by cartridge pack.

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:

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

APPLICATIONS:

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

- 1 Construction and Expansion Joint sealing.
- 1 Filling of cracks in masonry, walls, ceilings etc.
- 1 Recommended for roofing and cladding.
- 1 Specially recommended for seismic zone constructions applications due to its elastomeric nature.
- 1 Fixing of Aluminum, Glass, Wooden window frames with masonry and filling of gap between them.

Other than construction, ZSP-1191 can be 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, Bus/ Trucks/ Car body seam sealing/ gasketing with long lasting best performance.

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



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STORAGE:

To be stored at shaded and well-ventilated place around 20°C to 35°C, in original sealed airtight containers, away from direct heat. As the product is Room Temperature Curing (RTC), please keep the container airtight after every use.

SHELF LIFE:

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

IMPORTANT:

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

COMPARISON BETWEEN ZSP-1191 & NORMAL SILICON SEALANT

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

APPLICATION PROCEDURES:

- a) **EXPANSION / CONSTRUCTION JOINT SEALING:** Please refer the procedure at the back of the technical data sheet of Zahabiya Sealing Gum ZSG-12/99.
- b) **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 all loose dust, sand and cement particles 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 or preferably with 20% liquor ammonia all around the cracked joint surfaces up to existing depth.
 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 commissioned after 2 days drying.
 6. If repainting is desired, the crack can be painted over by Zahabiya Water Shield ZSAC-10/55 (preferably) or any emulsion paint.



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.