



THE STRESS FREE BONDING



Proudly made in India

TECHNICAL DATA SHEET

ESSRBOND MS 40

CGSEAL/TDS/001, Date : NOV - 2019

(High Modulus MS Polymer Sealant)

DESCRIPTION

ESSRBOND MS 40 is a one component, high performance sealant based on advance MS Polymer Technology. It is solvent, Silicone & Isocyanate free & Non- straining for natural stones applications. It has an excellent UV, weather and temperature resistance. It has excellent adhesion over a wide variety of substrates and is paintable with most common industrial paints.

FEATURES

- ◆ Fast Cure
- ◆ Abrasion resistance including foot traffic
- ◆ High Strength adhesive bond
- ◆ Excellent adhesion to a wide variety of substrates
- ◆ Good primer less adhesion on many common construction substrates
- ◆ Permanently Flexible
- ◆ No Shrinkage
- ◆ Non Staining Including Hydrophobic
- ◆ Staining
- ◆ Damp surface tolerant
- ◆ Low Dirt Pick up
- ◆ High UV and aggressive atmosphere resistance
- ◆ Environmental Friendly
- ◆ Excellent low temperature gun ability

TECHNICAL PROPERTIES



PROPERTIES	RESULT
Base	MS Polymer
Color	White / Black /Grey
Density	1.45 to 1.50 (g/cc)
Skin Over Time	10 - 15 min (23°C & 50% R.H)
VOC Content	<2%
Shore A Hardness	35 - 40 (After 7 Days)
Application Temperature	5°C to 40°C
Elongation at Breaking	>500% (Approx)
Curing System	Moisture Curing
Full Cure Standard Condition	3-4mm / 24 hr
Movement Accommodation Factor	25%
Tensile Strength	1.5 to 2.0 Mpa
Maximum Joint Width	50mm
Service Temperature	-40°C to 100°C



THE STRESS FREE BONDING



TECHNICAL DATA SHEET

ESSRBOND MS 40

CGSEAL/TDS/001, Date : NOV - 2019

(High Modulus MS Polymer Sealant)

APPLICATION INSTRUCTIONS

- Ensure that all surface area clean, dry & free from all loose dirt, dust oil grease or any other containment. This may impair adhesion. Metal surface should be cleaned & degreased.
- The tip of the nozzle is cut according to the width of the surface and fixed to the applicator.
- The Cartridge package is cut from one edge and fixed to a suitable gun.
- The cap nut is screwed to the cartridge cylinder of the gun
- The joints should be filled at one time and without gaps during the application.
- The surface of sealant applied in the joints should be smoothed with a dampened spatula or by hand immediately before skin formation.
- If used, the adhesive tape should be removed afterwards.
- The opened packages should be consumed as quickly as possible.
- The contaminated areas and used tools should be cleaned with white spirit or alcohol within 10 minutes. It is cleaned only mechanically after cured.
- Joint width/depth ratio should be 2:1.

APPLICATION PRINCIPLES

It is specially formulated for structural joint that will be subjected to dynamic stresses. It is used for making permanent high strength elastic bonding in construction Automotive, Industrial and Marine applications. Ideal for bonding of metal (Stainless Steel, Aluminum, Steel, copper etc.), Rubber natural rubber, Synthetic rubber, Natural materials (wood, Plywood, Leather, Cloths , Paperboard etc.) & Inorganic (Concrete, Mortar, Natural Stone, Tile, Glass, Porcelain etc.) and Plastics (Nylon, PVC, ABS, Polycarbonate etc.)

PAINTING

ESSRBOND MS 40 may be over painted with water based & PU based paints, however due to the large number of coatings available, it is advisable to carry out a compatibility test before application. For alkyd paints a suitable water based undercoat must be used.

HEALTH & SAFETY

Keep out of reach from children. Before handling, read both the product and material safety data sheet for detailed use and health information.

- Avoid contact with eyes & mouth.
- In case of contact with eyes, flush with water immediately for 15 min. If irritation persists, seek medical attention.

STORAGE

Store in a cool and dry place. away from direct sunlight and moisture. Storage temperature to be below 35°C

SHELF LIFE

Twelve months from date of manufacturing in unopened condition.

PACKING

ESSRBOND MS 40 is supplied in 600 ml Aluminum foil Sausage, 10 pcs packed in one box and 310 ml plastic cartridge, 25pcs packed in one box



NOTE

The company's products are sold subject to the Company's standard terms and conditions of sale. Products are warranted against defective materials and workmanship. The company makes every effort to ensure that all the information, recommendations or the specifications provided by it are accurate and true. However as the company has no control over the conditions of use, it cannot accept any liability, either directly or indirectly regarding the usage of its products. Product specifications are subject to change without prior intimation to users as the products are being continuously upgraded.