

ESSRBOND MS 40

High Modulus MS Polymer Sealant



The Stress Free Bonding

TDS No : SR 3- TDS-001
Rev No. 01 / Nov 2019

TECHNICAL DATA SHEET

DESCRIPTION

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

CHARACTERISTICS

- 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
- Resistance to aerobic and anaerobic bacteriological attack.
- Comprehensive color range
- Environmental Friendly
- Excellent low temperature gun ability
- Improved gun & tooling characteristics
- Retains joints soundness once cured

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, Synthetic, EPDM etc.), 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.

SURFACE PREPARATION

Ensure that all surfaces are clean, dry, and free from all loose dirt, dust, oil, grease or any other contaminants which may impair adhesion. Metal Surfaces should be cleaned and degreased. For a neat finish, apply masking tape and remove it before sealant has skinned over.

APPLICATIONS

Cut off cartridge / sausage with a sharp knife. Cut nozzle at 45° angle to desire bead-width & apply to substrate with cartridge gun. Firmly extrude the sealant into slot ensuring complete contact with joint faces. Tooling time is 10 minutes, tack free time is 10-15 minutes. The sealant should be tooled shortly after application before skin forms to ensure good contact with joint substrates. Uncured sealant can be cleaned up with mineral spirits. Use approved backing material for joints over 15mm deep.

STORAGE

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

SHELF LIFE

12 months from date of manufacturing in unopened condition.

STANDARDS

ESSRBOND MS 40 complies with

- ASTM C 920
- ISO 9001 & ISO 14001

Our Product Range



E-mail for enquiries : office@essrbond.com
E-mail for enquiries : essrbond@gmail.com
SR 3 CORPORATION - Vision Plus, office No,16-19 Near bhakti-shakti garden, Old Mumbai- Pune Highway, Nigdi, Pune- 411044(MH) INDIA

Website: www.essrbond.com

Ph No.: 7447766238
Ph No.: 7447478803

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TECHNICAL PROPERTIES:

PROPERTIES	RESULTS	TEST METHODS
Full Cure Standard Condition	3-4mm / 24 hr	—
Color	White / Black /Grey (Special color on request)	—
Density [g/cc]	1.5g/ml	ASTM D 792
Skin Over Time	10 - 15 min (23°C & 50% R.H)	—
VOC Content	<2%	ASTM D 3960
Shore 'A' Hardness	35 - 45 (After 7 Days	ASTM D 2240
Application Temperature	5°C to 40°C	—
Elongation at Breaking	>400% (Approx)	ASTM D 412
Curing System	Moisture Curing	—
Movement Accommodation Factor (M A F)	25%	TT-S-0027E
Tensile Strength	>1.5 Mpa	ASTM D 412
Maximum Joint Width	50mm	—
Service Temperature	-40°C to 100°C	

It will not readily ignite when expose to flame, hence it does not constitute a fire hazard (ASTM E84)

SAFETY PRECAUTIONS

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

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.

PACKING

ESSRBOND MS 40 is supplied in 600 ml Al foil Sausage packed in boxes of 20 & 310 ml plastic cartridge packed in boxes of 25.

NOTE

The company's product are sold subject to the company's standard terms and conditions of sale product are warranted against defective materials & workmanship. The company makes every effort to ensure 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 don't accept any liability, either directly or indirectly regarding the usage of its product.



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