

MasterSeal[®] HY 496MS

High modulus MS Hybrid Polymer sealant

DESCRIPTION

MasterSeal HY 496MS ALL IN 1 MS hybrid sealant is an easy-to-use, high strength, single component elastomeric product based on hybrid silyl modified polyether technology which can serve as both adhesive and sealant. It is a waterproof sealant and adhesive suitable for movement joints in internal and external floors. It cures in 24-48 hours and reaches maximum strength in 7 days.

ADVANTAGES

- Easy to use
- Can be used on dry or wet surfaces
- Can be applied underwater
- Paintable
- Permanently flexible
- Non sag
- Non staining to most of the natural stones
- Tough and abrasion resistant
- Supports heavy wheel load
- Can be applied to overhead surfaces
- VOC compliant
- Excellent resistance to chemicals micro-organisms
- UV and weathering resistant
- Low odor adhesive
- Meets the requirements as per ISO 11600 Type F 25 HM

MAIN APPLICATIONS:

MasterSeal HY 496MS ALL IN 1 MS Hybrid Sealant can be used in construction & Building applications including structural joints in heavy cladding, structural movement joints in floors and floor joints in heavily trafficked areas. MasterSeal HY 496MS ALL IN 1 MS hybrid is best suited for applications of trim and molding, tile bonding and sealing, underwater bonding, underwater sealing and repair, bonding landscape blocks, paneling installation, sealing showers / pipes and baths, countertops & cabinets installation and repairs, bonding back splash to walls, window & door installation and sealing, masonry Sealing, installing wall stone, natural stones exterior fixing and repairs, gutter sealing, roofing applications and repairs, HVAC sealing and repairs, marine & automotive applications and repairs including glazing and panel bonding / sealing, DIY projects, emergency adhesive and sealant repairs.

TYPICAL PROPERTIES:

Composition	1-part Hybrid , moisture curing
Consistency	Smooth and pasty
Color	Grey, White and other colors available on request.
Skin Over Time (max)	10 min (+23°C / 50% r.h.)
Curing rate	≈ 3 mm/24 hours (≈6mm/48 hours & ≈8 mm/72) hours (+23°C /50% r.h.)
Specific Gravity	≈ 1.67
Solid content	>95%
Movement Capability Butt Joints	25% (movement in tension and compression)
Movement Capability lap joints	50% (movement in tension and compression)
Sag flow	0 mm, very good
Service temperature	-40°C to +120°C
Application Temperature	+5°C to +50°C
Shore A Hardness	Minimum 45
Trafficking time @ 20°C	Light trafficking - 24 hours Heavy trafficking - 4 days
Tensile Strength,	N/mm ² ≈ 1.8
Tear strength, N/mm	≈ 8
Elongation at break, %	≈ 230
Elastic recovery	≈ 80%
UV resistance	Excellent
Flash Point	>65°C

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USAGE INSTRUCTIONS:

The joint surfaces must be clean, dry and free from all contamination. The surfaces should be degreased using the appropriate solvent.

Cut off tip of the cartridge, leaving thread intact. Screw on the nozzle and cut nozzle to the required size. Insert cartridge into a standard size caulking gun and squeeze trigger.

Apply liberally to one side of the surface being bonded and apply firm pressure continuously for a minimum of 10-30 seconds. In some applications, clamping may be required. If needed, the bonded objects can be repositioned within 10 minutes of application.

Allow 24-48 hours for curing. Will reach maximum strength in 7 days.

JOINT SIZE SUITABILITY:

Joint Width:

Minimum 6mm

Maximum 25mm (single application); 35mm (multiple applications)

Joint Depth:

Minimum 10mm on porous substrates (12mm in floor joints)

Minimum 6mm on non-porous substrates (12mm in floor joints)

Maximum 20mm

Width:

Depth ratio (within above min/max restrictions)

2:1 butt joints

1:1 tap joints/floor joints

CAUTION:

DIRECT CONTACT WITH UNCURED SEALANT IRRITATES EYES AND MAY IRRITATE SKIN. OVER EXPOSURE TO VAPOUR MAY IRRITATE NOSE AND THROAT. Avoid eye and skin contact.

Use with adequate ventilation. Do not handle contact lenses with sealant on hand. In case of eye contact, flush eyes with plenty of fresh water for 15 minutes and obtain medical attention. In case of skin contact, remove from skin and flush with water.

KEEP OUT OF REACH OF CHILDREN. Consult Material Safety Data Sheet (MSDS) to know more about handling and safe usage.

STORAGE AND SHELF LIFE:

12 months from date of production if stored in undamaged original sealed containers, in dry conditions and protected from direct sunlight at temperatures at or below +25°C.

PACKAGING:

600 ml sausage and 280 ml cartridges

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NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local Master Builders Solutions representative.

Master Builders Solutions reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY AND CARE

All Master Builders Solutions Products are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health and safety standards of ISO 9001 and Master Builders Solutions ESHQ recommendations.

* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the MBCC-Group in many countries

CONTACT

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Disclaimer:

In view of widely varying site conditions and fields of application of our products, this technical data sheet is meant to provide general application guidelines only. This information is based on our present knowledge and experience. The customer is not released from the obligation to conduct careful testing of suitability and possible application for the intended use. The customer is obliged to contact the technical help-line for fields of application not expressly stated in the technical data sheet under "Fields of Application". Use of the product beyond the fields of application as stated in the technical data sheet without previous consultation with Master Builders Solutions and possible resulting damages are in the sole responsibility of the customer.

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