

# MasterSeal® HY 495

Ultra-high performance, façade and structural sealant

## DESCRIPTION

**MasterSeal HY 495** is a high-grade, hybrid Silane-terminated polyurethane compound one component moisture curing, low-modulus sealant and adhesive.

## TYPICAL USES

**MasterSeal HY 495** is a hybrid sealant specially developed for sealing of all types of external or internal facade joints. Expansion joints - Construction joints - Joints in precast elements – External walling and cladding joints - Infill panel joints - Curtain walling – Window and door frame sealing - Bridge and balcony parapets - Retaining walls – Subways - Reservoirs and water retaining structures.

## ADVANTAGES

- Free from isocyanates and silicones.
- Excellent adhesion to most building substrates.
- Highly resistance to ageing and weathering.
- Strong, permanently elastic, durable seal.
- Excellent adhesion, without primer to most surfaces.
- Odorless, UV, water, and fungal growth resistant.

## PACKAGING

**MasterSeal HY 495** is supplied in boxes of 12 x 300ml cartridges and 12 x 600ml sausage.

## COLOR

**MasterSeal HY 495** is available in Concrete Grey, White and Off White

## WATCHPOINTS

- Avoid exposure to high levels of chlorine.
- Avoid contact with alcohol, curing silicone sealants and solvent cleaners during cure.
- Yellowing may occur in the product in particular circumstance.
- Among others not recommended for glazing and not for aquaria, PE, PP, Teflon and bituminous surfaces.

## STANDARDS

**Conforms to:**  
 ISO 11600 F25 LM, SNJF F 25 E, DIN 18540 F  
 DIN 4102-1 fire resistance, FDA specification  
 UBATC-BUTGB

## TECHNICAL DATA\*

Cure mechanism	Evaporation
Density	1.35g/ml
Cure time (23°C 55% RH)	2.5mm/day
Resistance to vertical flow (ISO 7390)	<3mm
Application temperature	+5°C to 40°C
Application rate (3mm / 4 Bar pressure)	150g/min
Shore A hardness (ISO 868)	25
Elongation at Break (ISO 8339)	>350%
Joint Movement	±25%
Temperature Resistance	-30°C till +70°C
E-Modulus at 100% (ISO 8339)	0.35N/mm <sup>2</sup>

## APPLICATION

### Surface preparation:

To ensure optimum adhesion substrates must be sound, clean, dry and free from any loosely adherent material which could prevent adequate bond to the substrate.

**MasterSeal HY 495** adheres perfectly without the use of a primer to most substrates. Strongly porous substrates (gypsum, aerated concrete, limestone, etc) may need priming. It is good practice to test adhesion before commencing full installation.

### Application:

**MasterSeal HY 495** shall be applied using a conventional sealant application gun, ensuring enough sealant is applied to facilitate the correct width to depth ratio for the joint. Following the application the sealant must be tooled into place to ensure adequate adhesion with the joint profile is achieved. Finally tool to a neat finish using a solution of soap and water onto a gloved finger or tooling stick.

## EQUIPMENT CLEANING

Clean uncured material using soap and water. Cured material can only be cleaned mechanically.

## APPLICATION TEMPERATURE RANGE

Minimum	+5°C
Maximum	+40°C

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## CONSUMPTION

Applicable joint length with a 600ml cartridge (in meters)

Joint depth (mm)	Joint width (mm) approx.						
	6	8	10	12	15	20	25
6	16.6	12.5	10	8.3	NA	NA	NA
8	NA	NA	NA	NA	5.0	NA	NA
10	NA	NA	NA	NA	NA	3.0	NA
12.5	NA	NA	NA	NA	NA	NA	1.92

NA = Not Allowed

## STORAGE AND SHELF LIFE

MasterSeal HY 495 has a shelf life of 12 months for cartridge & sausage from production date when stored in its original packaging at temperatures between 5°C and 25°C.

## HEALTH AND SAFETY

Avoid contact with the skin, eyes and clothing.

### On skin contact:

Wash thoroughly with soap and water.

### On contact with eyes:

Wash affected eyes for several minutes under running water.

### On ingestion:

Drink plenty of water. Do not induce vomiting unless told to by a poison control center or doctor.

No special measures necessary if stored and handled correctly. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke.

## 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

Should you require any further information, please do not hesitate to contact us:

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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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