

MasterSeal® Systems Engineered sealing and weatherproofing solutions

A brand of **MBCC** GROUP

$\boldsymbol{>}$ **Product Selection Chart**

The MasterSeal® range from Master Builders Solutions provides professionals with a comprehensive selection of high-quality, elastomeric joint sealants.

MasterSeal joint sealants are suitable for applications ranging from everyday use in bathrooms or kitchens to the most demanding industrial, commercial and civil engineering environments.

		Properties, characteristics and typical uses @ 25°C																				
Product	Sealant type	Cartridge (280/290/310 ml)	Sausage (600 ml)	Non-Sag / Gun grade	Fluid SL grade	Movement accommodation %	Shore A hardness	100% Modulus MPa	Elastic recovery %	Elongation at break %	Tensile strength MPa	Chemical resistance	Temperature resistance °C	Cure time mm/day	Facades	Sanitary / tiling	Industrial floors	Roads	Swimming pools	Water immersion	Natural Stone	International Standards
MasterSeal 121	Acid cure silicone	Y	N	Y	N	± 20	15	0.30	>80	520	1.31	G	- 40 to +120	2	N	Y	Y	N	N	Y ¹	N	EN15651 Parts 1: F-EXT-INT-CC, 2: G-CC, 3: S S1
MasterSeal 122	Neutral cure silicone	Y	N	Y	N	± 25	16	0.35	>90	500	1.00	G	- 50 to +120	2	Y	Y	Y	N	Y ¹	Y ¹	N	EN15651 Parts 1: F-EXT-INT-CC 25LM, 2: G-CC 25LM, 3: S XS2
MasterSeal 123NS	Neutral cure pure silicone	Y	N	Y	N	± 25	15	0.35	>90	530	0.96	G	- 50 to +120	2	Y	Y	Y	N	Y ¹	Y ¹	N	EN15651 Parts 1: F-EXT-INT-CC 25LM, 2: G-CC 25LM, 3: S XS2
MasterSeal NP 472	1 component polyurethane	Y	Y	Y	N	± 25	35	0.202	>85	700	0.50	G	- 30 to + 70	3	Y	Y	N	N	N	N	Y	ISO11600 F25LM ² ASTM 920, EN 15651 Pt 1 F-EXT-INT-CC F25HM
MasterSeal NP 474	1 component polyurethane	Y	Y	Y	N	± 25	45	0.60 ²	>85	450	1.00	G	- 30 to + 70	3	Y	Y	Y	N	N	Y ³	Y	ISO11600 HMF, ASTM 920, EN15651Pt 1, 4
MasterSeal SL 189	Neutral cure silicone	Y	Y	N	Y	+ 50 - 25	15	<0.20	>85	1000	0.50	VG	- 40 to + 120	2	Y	N	Y	Y	N	N	N	ISO 11600 HMF, ASTM 920
MasterSeal HY 495	1 component hybrid	Y	Y	Y	N	± 25	25	0.35	>80	350	0.38	VG	- 30 to + 70	2.5	Y	N	Y	Y	N	N	N	EN15651_1: F-EXT-INT-CC 25LM, ISO 11600 F25LM, ASTM 920
MasterSeal 10WB	Acrylic dispersion	Y	N	Y	N	± 7.5	<15	n/a	n/a	200	0.38	N/A	- 20 to + 75	2	N	N	N	N	N	N	N	EN 15651 Part 1: F-EXT-INT 7,5P
MasterSeal 470	2 component polysulfide	N	N	Y	Y	± 25	25	0.25	>80	600	N/A	VG	- 40 to +120	Full	Y	N	Y	Y	N	Y	N	ASTM C920 M 25, BS 5212_1 WRAS
MasterSeal CR 460	2 component polyurethane	N	N	N	Y	+ 10 to 20	80	1.80	n.a.	>20	1.80	VG	- 30 to + 80	cure 7d	N	Y	Y	N	N	N	N	n/a



Notes(Recommended): Y=Yes, N=No, 1 = tiled swimming pools, 2= @ 23°C, 3= with primer.

Our product offer¹

Whatever the project: residential, industrial, commercial or institutional, small or large, new build or refurbishment, MasterSeal and MasterWeld[™] system solutions from Master Builders Solutions, will help you complete your project on time and on budget. The majority of these products will be stocked by your local Master Builders Solutions professional distributor partners offering local service, supply and technical support.

MasterSeal NP 472 or MasterSeal HY 495 roof joints

MasterSeal 121, MasterSeal 122, MasterSeal 123NS, or MasterSeal NP 472 for balcony waterproof joints in tiled systems

MasterSeal 955

FLASHSEAL self-adhesive

instant waterproofing tape

MasterSeal 121 and MasterSeal 122 for tiling and sanitary ware in bathrooms and kitchens

MasterSeal waterproofing and MasterTile tile adhesives and grouts, engineered solutions for swimming pools

> MasterSeal NP 474 trafficable joint sealant for garage and workshop

MasterSeal GP Foam for fixing and gap filling of window and door frames MasterSeal B1 Foam Fire rated foam for internal gap filling and MasterSeal fire and smoke rated joint sealants for sealing

MasterSeal NP 472 or MasterSeal HY 495 sealants for watertight facade joints

MasterWeld 303 construction adhesive for fixing frames, skirtings, panels architectural details

MasterSeal 123NS for Natural Stone finishes or walls and floors

MasterSeal 10WB, MasterSeal 122 and MasterSeal NP 472 for corner bead joints on window and door frames

Silicones for kitchens, bathrooms, swimming pools and other wet areas

The MasterSeal range of silicone joint sealants offer the highest performance for a wide range of applications:

Features and benefits

- High percentage polymer contents: provide low shrinkage, tenacious bond and durable, long lasting performance.
- Antifungal formulation: prevents unsightly fungal and algae growth to maintain appearance.
- Excellent bond on most substrates: means no primers needed.
- High chemical resistance: easily withstands all household cleaners.
- Excellent UV resistance: can be used internally and externally.
- High movement accommodation factors: easily accepts building movements without stress on bond lines or substrates.
- Wide color range: to match MasterTile tile grouts, ceramic and natural stone coverings and metallic furnishings and finishes.

Special properties

MasterSeal 122: neutral cure ensures odorless installation and ability to be used on cement, concrete and other alkaline substrates. High polymer content allows use in tiled swimming pools.

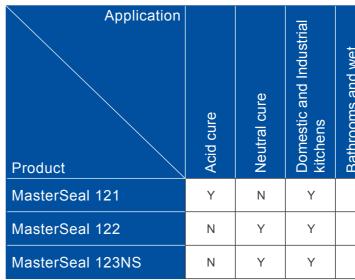
MasterSeal 123NS: 100% silicone odorless, formula to eliminate staining on natural and reconstituted stone floor and wall coverings.







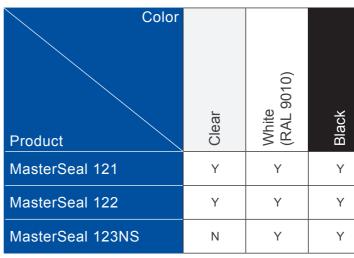
MasterSeal 122 with MasterTile tile adhesives and grouts: the ideal engineered solution for tiled swimming pools



Y = Strongly Recommended

y = Can be used, but better alternatives may exist

N = No



Y = Stock items

y = Available to order (please confirm with your local Master Builders Solutions representative) N = No

Daunouns and wet rooms	Aluminum, metal, PVC, wood	Concrete, brickwork, renders	Window and door frames	Glazing top seals	Natural Stones wall and floor tiles	Swimming pools
Y	Y	Ν	Y	У	Ν	у
Y	Y	Y	Y	Y	у	Y
Y	Y	у	у	у	Y	у

Light Ivory (RAL 1015)	Concrete Grey (RAL 7004)	Light Grey (RAL 7035)	Mahogany Brown (RAL 8016)	Bronze (RAL 1036)
Y	Y	Y	Y	Y
У	Y	У	у	У
Y	Y	Ν	Ν	Ν

Polyurethane and hybrid polymer joint sealants for building facades and civil structures

MasterSeal polyurethane single component joint sealants in cartridges, or economic 600ml sausages, have been the mainstay of architectural and engineering joint sealing for the past 20 years combining proven performance and reliability.

Features and Benefits: MasterSeal NP 472 and MasterSeal NP 474

- Excellent adhesion on most surfaces without primer.
- Excellent non-sag properties suitable for vertical and overhead joints.
- Single component: easy to use.
- Very good UV, weathering and ageing resistance, color stability, provide high durability and long service life.
- Can be painted over with water based paints.
- Very low residual tackiness means reduced dirt and dust pick-up.

Special benefits of MasterSeal NP 472

- Lower modulus which reduces stresses on the adhesive bond line, therefore suitable for substrates with weak tensile strength and joints subject to rapid movement caused by sudden and/or constant temperature changes.
- For low temperatures: retains flexibility and movement capability.

Special benefits of MasterSeal NP 474

- Higher modulus and Shore A hardness gives improved abrasion resistance for use in horizontal traffic situations.
- High pick and vandal resistance for use in prisons, schools and other public spaces.
- Improved water resistance for use in water tanks, irrigation channels, etc.





Hybrid polymer systems: latest technology

 The latest generation of single component, thixotropic, Exceptional adhesion, even to damp substrates without low modulus, hybrid polymer joint sealant with exceptional primer. properties for movement and construction joints in high-Exceptional UV, weathering and ageing resistance and rise buildings. color stability compared to polyurethane sealants.

Application	Primer free application (on most substrates)	Expansion and construction joints	External movement joints walls and roofs	Internal movement joints	Internal floor joints / Trafficable Joints	Jersey barriers, Precast and Tilt-up	Window and door frames	Water tanks and channels	Prisons, schools, hospitals, shopping malls	Low strength substrates	Moisture tolerance
MasterSeal NP 472	Y	Y	Y	Y	У	Y	Y	Ν	У	Y	Ν
MasterSeal NP 474	Y	Y	У	Y	Y	Y	Y	Y*	Y	Ν	Ν
MasterSeal HY 495	Y	Y	Y	Y	у	У	у	у	Y	Y	Y

Notes:

Y = Strongly Recommended

y = Can be used, but better alternatives may exist

Color Product	Concrete Gray (RAL 7004)	White (RAL 9010)	Black	Light Ivory (RAL 1015)	Cartridges ml	Foil sausages ml
MasterSeal NP 472	Y	Y	у	Y	310	600
MasterSeal NP 474	Y	Y	у	Y	310	600
MasterSeal HY 495	Y	У	у	у	300	600

Y = Stock items

y = Available to order (please confirm with your local Master Builders Solutions representative)



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Features and benefits: MasterSeal HY 495

Excellent tolerance to moisture: eliminates bubble formation experienced by other sealant types on damp substrates, or because of high atmospheric humidity during application (a problem experienced by polyurethane sealants).

N = No* = With primer

>>> Industrial and special situations

Require joint sealants to withstand challenging conditions such as heavy traffic, fire resistance, chemical spillage, fuel and solvent attack. The MasterSeal range provides proven formulations for these environments.

Typical areas of use and main requirements

- Factories and warehouses: abrasion and chemical resistance.
- Food and beverage manufacturing and chemical plants: hygiene and chemical resistance.
- Airports, taxiways and hangars: jet fuel resistance and certification.
- Concrete and asphalt roads: high movement and low modulus.
- Fuel station forecourts: fuel resistance.

Product descriptions, features and benefits: MasterSeal SL 189

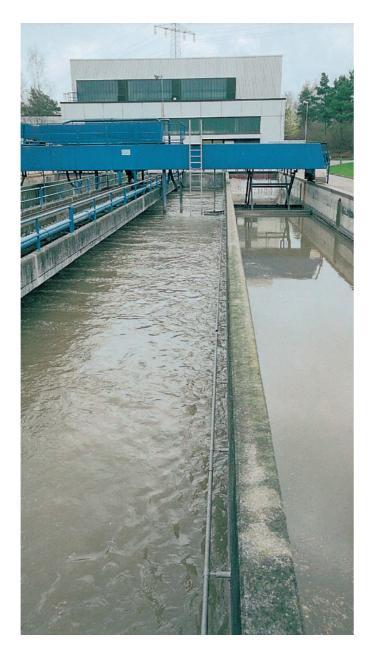
- Single component, self leveling silicone supplied in cartridges for simple, problem free installation.
- Ultra low modulus and high movement capability for use on asphalt as well as concrete joints.
- Very high fuel resistance for use on airport taxiways, hard standings and hangars.

MasterSeal 470 (formerly MasterFlex 700)

- 2 component, high grade polysulfide with >25 year track record in harsh environments and climates.
- Non-sag gun, and pouring grade versions available for vertical and horizontal joints.
- Very good chemical resistance e.g. wastewater facilities.

MasterSeal CR 460

- Special, 2 component formulation with exceptional chemical resistance for use in food, beverage and pharmaceutical industries.
- Color matched to 7 standard colors of Ucrete floor systems.





Product	No. of components	Primer needed	Expansion joints	Construction joints	Concrete floor / traffic joints	Fuel resistance	High chemical resistance 3	Wastewater treatment	Airport taxi areas and hangars	Asphalt roads and surfaces	Use with Ucrete floors	Colors available
MasterSeal SL 189	One	N^1	Υ	Y	Y	Υ	у	Ν	Y	Y	Ν	Grey
MasterSeal 470	Two	Y	Y	Y	Y	Y	Y	Y	Y	N	Ν	Grey
MasterSeal CR 460	Two	Y	y²	Y	Y	Ν	Y	Y	N	Ν	Y	7 ³ colors

Notes:

1 = On most substrates

 $2 = Limited movement (\pm 20\%)$

3 = See Ucrete product data sheets or contact Master Builders Solutions representative

Fire and acoustic rated sealants for compartmentation / passive fire protection*

A very special range of products, with acoustic, flame and fire retardant properties, used as part of passive fire protection systems in buildings and structures. Full details of the products can be found in the separate product data sheets and brochure.

*Due to local registration restrictions these products may not be available in your country. Contact your local Master Builders Solutions representative for clarification.



Y = Yes (Recommended) N = No y = yes (but better alternatives available)

MasterSeal FP 110: Single component, acrylic plasto/elastic sealant with sound reducing, and fire and smoke retardant properties (120 minutes).

MasterSeal FP 125: Single component, elastic, weatherproof, 240 minute fire rated silicone sealant for joints up to 50 mm wide.

MasterSeal FP 115: Graphite filled, high pressure exerting, intumescent joint sealant which owing to its very high expansion properties is able to close penetration voids in case of fire.

Joint design

All structures move. Correct design of joints allows controlled movement to occur while retaining the weather and watertight functionality of the structure. Movement occurs as a result of long term shrinkage of concrete, settlement, loading, vibration, and impact, but, the most important source of movement, results from temperature change. Even the best quality joint sealants, applied by trained installers will fail if joints are not correctly designed.

Joint design (1): joint width

The Engineer must decide on:

- the number of joints,
- the spacing and location of joints,
- the width of the joints.

This will be based on the following criteria:

- the amount of movement expected,
- aesthetic and practical considerations of the particular project,
- the movement capability of the joint sealant to be specified.

Calculation of thermal movement of a building or structural element

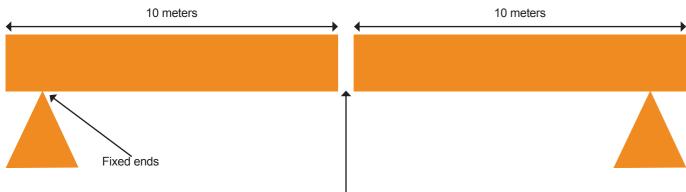
The linear movement of a building component due to temperature change is calculated using:



- ΔL = Resulting change in length
- α = Coefficient of Thermal Expansion of the material (Typically concrete = ± 12.5 x 10⁻⁶ m/m)
- L_o = Original length of the building element
- ΔT = Net change of temperature in the element

Example: Consider 2 concrete elements each 10 m long (see diagram below). Extreme temperatures: -5°C winter, +45°C in summer. Therefore, the movement is calculated using the equation above, as:

Movement calculation for each element: $12.5 \times 10^{-6} \times 10 \times 50 = 6.25$ mm



Potential movement at butt joint = 2 x 6.25 mm = 12.5 mm (for a temperature change of 50°C)

The minimum theoretical joint width is calculated based on the calculated movement and the movement capability of the joint sealant:

Minimum theoretical joint width = (100 / Movement capability %) x calculated movement

Therefore, in the above example, and using MasterSeal NP 472 with a movement capability of ±25% = 50% total movement capability

Minimum theoretical joint width = (100/50) x 12.5 = 25mm

But, beware, this theoretical minimum calculation can cause significant problems if we do not consider the temperature at the time of the installation of the joint sealant, and the ACTUAL size of the joint at this time!

Consider, as an example, if the structure is built in spring at a temperature of 10°C, with the 25 mm joint width as calculated. But the sealant is not installed until late summer when the ambient temperature is then 40°C. Both the concrete elements will have expanded by 3.25 mm and the joint will have closed by 7.5 mm to an actual width of 17.5 mm. Most of the potential movement of the joint will be as the concrete shrinks over winter time to -5°C. This 45°C temperature change will cause the joint gap to widen by 11.25 mm.

11.25 mm as a percentage of 17.5 mm = 64.3% movement far greater than the 25% movement capability in expansion of the sealant which could, over time lead to cohesive or adhesive failure either in the sealant or substrate.

For these reasons, use of a Safety factor of 2 is recommended when designing joint widths (or use twice as many joints, if aesthetics allow).

Joint design (2): joint depth

In tiling applications the minimum industry standard joint dimensions are 6 mm x 6 mm. In all other cases, practical installation difficulties mean that minimum joint widths are 8 - 10mm. At these widths the depth equals the width.

However.

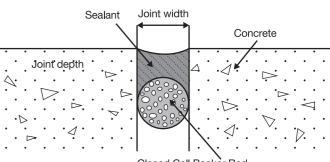
for joints > 12 mm wide the joint depth should equal 0.5 x width.

NB: Applying sealants too deep is a major cause of adhesive and cohesive joint failure due to the excessive stresses created!

Joint Design (3): avoid 3 sided adhesion!

An essential part of joint design is to ensure that the sealant does not adhere to the base of the joint. This so called 3 sided adhesion prevents the sealant from moving as it should, and is a major, a common cause of joint sealant failures.





Closed Cell Backer Rod Compressed approximately 25% prevents adhesion to base of joint

$\boldsymbol{>}$ Joint installation and trouble shooting

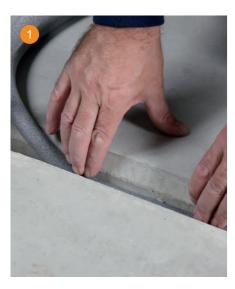
Sealant Installation (basics)

Ensure all joint faces are clean, sound and free from any material which may hinder adhesion! Use primer where necessary.

- 1. Insert backer rod to control depth of sealant: N.B. for joints >12 mm wide, depth = $0.5 \times$ width.
- 2. Mask joint for best results.
- 3. Prime joint faces (only where necessary see product technical data sheets).
- 4. Cut nozzle of cartridge or sealant gun at 45° to match width of joint and fill.
- 5. Tool joint to create optimum concave shape. Before sealant cures, removing masking tape.



Problem	Primary cause	Other causes					
Adhesive failure at bond line (photo 1)	Inadequate surface preparation: poor bond	Poor joint design: too narrow for movement. Sealant applied too deep, or 3 sided adhesion					
Cohesive failure in sealant (photo 2)	3 sided adhesion due to no bond breaker rod	Joint sealant applied too deep or inadequate movement capability of sealant					
Cohesive failure in substrate	Modulus of sealant too high for weak substrate	3 sided adhesion due to no bond breaker rod or inadequate movement capability of sealant					
Crocodile skin cracking (photo 3)	Age hardening due to poor UV resistance, poor quality or low polymer content						
Multiple longitudinal cracking (photo 4)	Excessive shrinkage in sealant due to low polymer content and/or excessive plasticizers and solvents						

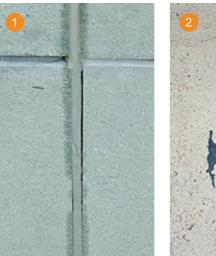
















Slossary of terms

Substrates

The composition of the building material. Adhesion properties of sealants vary on different substrates. Primers might be required to assure good adhesion. The correct preparation and repair of substrates are essential for the sealant durability.

Elastic recovery

This test measures a sealant's recovery after it has been extended for a certain length and time. The results represent the percentage recovery in relation to the length of extension. High percentage recovery show that a sealant experiences less permanent plastic deformation and retains its flexibility and functionality over time.

Movement capability

This is the key parameter in the selection process for a joint sealant. Defines the capacity of a sealant to be stretched or compressed as a percentage to its original size. A sealant will show within these limits no permanent deformation through compression and extension.

100% Modulus (E-Modulus)

Measures the force necessary to stretch a standard sample to twice its original length. Materials with high modulus require greater force to achieve a certain elongation. On weak substrates such as masonry or Exterior Insulation and Finish System (EIFS) panels, the high stresses generated by higher modulus sealants often cause cohesive failure in the substrate, or adhesive failure at the bond line on stronger substrates such as concrete. temperatures, when materials become stiffer, and even greater force is necessary to achieve elongation, or when the substrates to be sealed are too weak, low modulus sealants should be used. Note: Modulus data from different manufacturers can only be compared when identical test methods have been used, as sample size, thickness and rates of extension all affect the results obtained!

Elongation at break

Indicates the maximum possible elongation a sealant can withstand before rupture. In practical terms, this is not relevant as joints are never designed to move this far!

Durability

Sealants are exposed to a large variety of environments. Characteristics such as resistance against UV, weather, abrasion, vandalism, traffic and chemicals are all important criteria for choice.



The following material technologies are commonly used in joint sealants for the construction industry

Silicones

Versatile material used in a wide range of applications characterized by excellent UV resistance and bond to most substrates without primers. Widely used in structural glazing applications but these specialist materials are not included in the MasterSeal range.

Two main types of general purpose silicone sealant exist:

- Acetoxy, or acid cure sealants, are recognizable by the smell of vinegar produced during cure. They are best suited for uses in kitchens or bathrooms with tiling or sanitary ware. They cannot be used on cement based or other alkaline substrates.
- Neutral cured silicones are odorless during cure, and are excellent general purpose materials adhering strongly to most substrates without primer. Wide areas of use including, for the better formulations, swimming pools. They exhibit excellent tolerance to a very wide range of temperatures in service. 100% silicones formulated without extenders or plasticizers are especially used with sensitive substrates susceptible to staining.

Polyurethanes

For many years the workhorse sealant and adhesive material for construction and industrial applications. With good performance characteristics in all fields, they are used in a very wide range of situations.

Hybrid materials

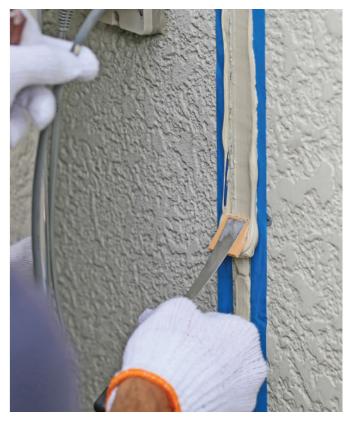
The latest technology, combining the best features of silicone and polyurethane polymers in one polymer. They exhibit excellent adhesion characteristics and UV resistance, and high tolerance to dampness, without formation of bubbles, which is a known limitation of polyurethanes. Two terms are widely used in the industry:

- MS polymer (Modified silicone)
- SPUR or StPUR (silane or silicone terminated polyurethane).
 These are essentially the same technology.

Polysulfides

Long established with a proven track record in the sealant market with excellent resistance to fuel and chemicals.





Tapes and waterstops for watertight joints

The MasterSeal range of engineered solutions for watertight joints from Master Builders Solutions includes a comprehensive range of ancillary products. Here we provide a brief introduction to these technologies.

MasterSeal 940

Internally and externally placed, high grade PVC waterstops for expansion and construction joints provide impervious physical barriers to the passage of water. Used for compartmentalization in deep basements, lift shafts, floor slabs on grade, reservoirs, watertanks etc.



MasterSeal 910 / MasterSeal 911

Hydrophobic, water swelling waterbar for all types of construction joints, applied with with a modified silicone, hybrid adhesive. Modified vinyl polymers which swell and fill even small crevices to block the passage of water. Simple to install, they offer an economic, yet effective alternative to PVC waterstops.

MasterSeal 909 / MasterSeal 901

Re-injectable flexible PVC hose system for waterproofing construction and cold joints in critical situations where it can replace conventional PVC waterstops. Joints can be sealed by injecting MasterSeal 901 low viscosity resin after water testing, before backfilling and even after structures have settled and problems appear during the life cycle of the structure.



MasterSeal 930

Elastic, resilient, chemical resistant tape fixed with high grade solvent free epoxy adhesive paste, ideal for the sealing of irregular and wide movement joints in a wide range of applications such as reservoirs, watertanks, irrigation channels, waste water storage.



MasterTile WP Tapes

Elastic, tape system used to ensure watertight connections at wall/floor joints and around penetrations in bathrooms and other wet rooms. Used with the Master Builders Solutions system solution for watertight bathrooms.

MasterSeal 955 FLASHSEAL

Aluminized, UV resistant self adhesive bitumen tape for general purpose, instant, waterproofing repairs.

Master Builders Solutions

The **Master Builders Solutions** brand brings all of it's expertise together to create chemical solutions for new construction, maintenance, repair and renovation of structures. Master Builders Solutions is built on the experience gained from more than a century in the construction industry.

The know-how and experience of a global community of construction experts form the core of Master Builders Solutions. We combine the right elements from our portfolio to solve your specific construction challenges. We collaborate across areas of expertise and regions and draw on the experience gained from countless construction projects worldwide. We leverage global Master Builders Solutions technologies, as well as our in-depth knowledge of local building needs, to develop innovations that help make you more successful and drive sustainable construction.





Our comprehensive portfolio

- Concrete admixtures
- Cement additives
- Chemical solutions for underground construction
- Waterproofing solutions
- Sealants
- Concrete repair and protection solutions
- Performance grouts
- Performance flooring solutions
- Tiling Solutions

Master Builders Solutions for the Construction Industry

MasterAir[®] Complete solutions for air entrained concrete

MasterBrace[®] Solutions for strengthening and structural adhesives

MasterCast® Solutions for the manufactured concrete product industry

MasterCell[®] Density reducing admixtures

MasterCem[®] Solutions for cement manufacture

MasterEase® Solutions for low viscosity concrete

MasterEmaco[®] Solutions for concrete repair MasterFiber® Comprehensive solutions for fiber reinforced concrete

MasterFinish[®] Solutions for formwork treatment

MasterFlow® Solutions for precision grouting

MasterGlenium® Hyperplasticizer formulated from state-of-the-art polymers for ultimate performance

MasterInject® Solutions for concrete injection

MasterKure[®] Solutions for concrete curing

MasterLife[®] Solutions for enhanced durability MasterMatrix[®] Advanced rheology control solutions

MasterPel® Solutions for water tight concrete

MasterPolyheed® High-performance superplasticizer

MasterPozzolith® Solutions for water-reduced concrete

MasterProtect[®] Solutions for concrete protection

MasterRheobuild[®] Superplasticizer for concrete

MasterRoc[®] Solutions for underground construction

MasterSeal® Solutions for waterproofing and sealing MasterSet[®] Solutions for set control

MasterSure® Solutions for workability control

MasterTile[®] Solutions for tiling systems

MasterTop® Solutions for industrial and commercial floors

MasterWeld™ Adhesive solutions for construction

MasterX-Seed® Advanced accelerator solutions for concrete

Ucrete® Flooring solutions for harsh environments

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