



# Sika Handbook For **CONSTRUCTION**



Experts' choice since 1910.

**BUILDING TRUST**



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# MORTAR CUM CONCRETE ADMIXTURE

## SikaCim®

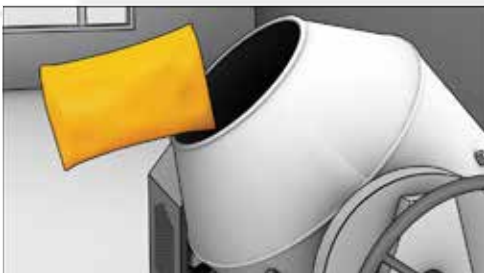
Liquid integral waterproofing concrete and mortar admixture

### Features:

- Compatible with all varieties of portland cement including
- Slag cement
- Minimizes loss of mortar due to rebound in plastering jobs, hence great ease of application and saving
- Required at a very small dosage, hence economical
- Improves water tightness to a great extent
- Performs multiple roles of water reducer as well as waterproofer
- Improves workability without increased water content
- Reduced shrinkage, better finish
- Acts to disrupt the leakage causing capillary structures formed in concrete to cause leak-ages
- No added chloride thus not contributing to corrosion of steel
- Convenient to handle since suitable for both concrete and mortar
- Supplied in consumer friendly pack

**Coverage:** 100g for 50kg bag of cement (0.2% by weight of cement)

**Available Pack Sizes:** 200 g, 1 kg, 5 kg, 10 kg, 20 kg, 50 kg, 230 kg



# MORTAR CUM CONCRETE ADMIXTURE

## SikaCim® Pink

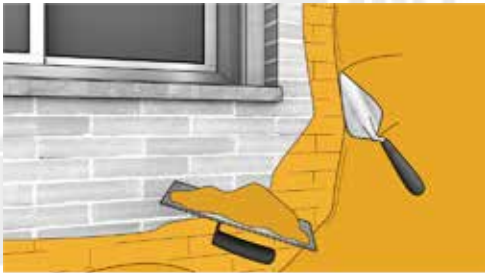
Liquid integral waterproofing compound for concrete, mortar and plaster

### Features:

- Compatible with all varieties of cement including slag cement
- Minimizes mortar and plaster rebound loss
- Extremely economical per cubic meter of concrete
- Reduces shrinkage cracks
- Makes concrete and mortar watertight by reducing capillaries
- Enhances strength development
- Improves labour output
- Easy to use and handle, dosage according to bags of cement

**Coverage:** 100 g for 50 kg bag of cement (0.2% by weight of cement)

**Available Pack Sizes:** 100 g Sachet, 1 kg, 5 kg, 20 kg, 50 kg HDPE Container



# POLYMER FOR REPAIR AND WATERPROOFING

## SikaLatex® Power

Multipurpose polymer for waterproofing and repair

### Features:

- Improves elasticity, flexibility, tensile strength of cement and reduces cracking
- Makes the mortar waterproof and reduces susceptibility to acids and gases, salt petre action etc.
- Mortar with SikaLatex® Power shows extremely good bonding to bases like concrete, stone, brick etc.
- Reduces viscosity of cement injection grout and improves bond of cured injected materials with substrates
- SikaLatex® Power can be diluted with water (1 : 4 - 8) depending on the type of application
- Screed required with Sikacim®/ Sika® Plastocrete Super to protect waterproofing layer
- Standard coating system can be further reinforced by placing Sika®Fab 1 fabric layer in between 1st and the 2nd coat.

### Dosage:

#### Bonding coat

Mixing ratio (by volume)

SikaLatex® Power: Water: Cement = 1 : 4 : 8

Consumption of mixture - ~ 300 g/m<sup>2</sup>

Consumption of SikaLatex® - ~ 25 g/m<sup>2</sup>

#### Repair Mortar

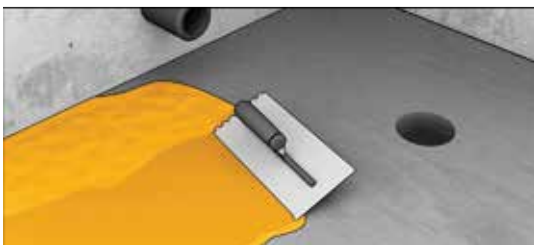
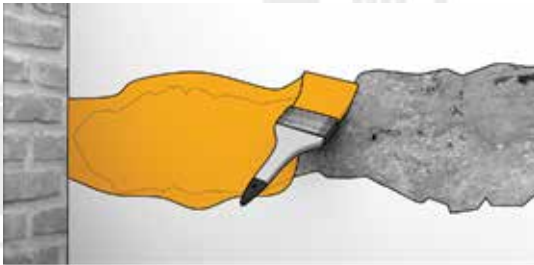
Mixing ratio (by volume)

SikaLatex® Power: Water: Cement: Sand = 1 : 4 : 10 : 40

Consumption of mixture - ~ 2000 kg/m<sup>3</sup>

Consumption of SikaLatex® - ~ 35 g/m<sup>2</sup>/mm

**Available Pack Sizes:** 250 g, 500 g, 1 kg, 5 kg, 10 kg, 20 kg HDPE Container



# POLYMER FOR REPAIR AND WATERPROOFING

## SikaLatex<sup>®</sup> Super

SBR based multipurpose polymer for waterproofing and repair

### Features:

- Multipurpose polymer and admixture
- Good adhesion to most substrates
- Increases adhesion, flexural and tensile strength
- Improves abrasion resistance, limits wear and dustproduction
- Reduces cracking in mortar and concrete
- Reduces water permeability
- Increases chemical resistance
- Non-toxic, non-corrosive and non-flammable
- Reduces viscosity of cement and improves bond
- Easy to use
- Does not re-emulsify even in high alkaline conditions
- □ Long life and watertight masonry jointing

### Dosage:

#### Bonding coat

Mixing ratio (by volume)

SikaLatex<sup>®</sup> SBR: Water: Cement = 1 : 4 : 4

Consumption of mixture - ~ 300 g/m<sup>2</sup>

Consumption of SikaLatex<sup>®</sup> - ~ 50 g/m<sup>2</sup>

#### Repair Mortar

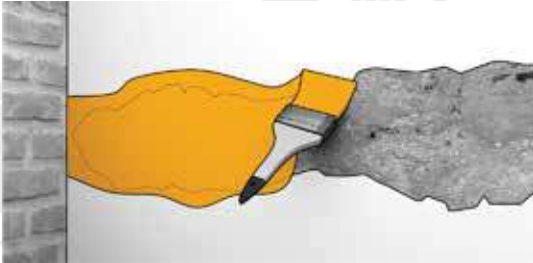
Mixing ratio (by volume)

SikaLatex<sup>®</sup> SBR: Water: Cement: Sand = 1 : 2 : 6 : 18

Consumption of mixture - ~ 1800 kg/m<sup>3</sup>

Consumption of SikaLatex<sup>®</sup> - ~ 70 g/m<sup>2</sup>/mm

**Available Pack Sizes:** 250 g, 500 g, 1 kg, 5 kg, 10 kg, 20 kg HDPE Container



# POLYMER FOR REPAIR AND WATERPROOFING

## Sika® CemCrete

Acrylic based waterproof coating system for concrete and masonry

### Features:

- Durable and hard wearing surface on application
- Easy to apply by brush, slurry consistency
- Excellent bonding with most of the substrates.
- Protects against water penetration, salt & carbonation
- Non-corrosive to steel & iron
- Vapour Permeable
- UV resistant & Crack Bridging Property
- Suitable for contact with potable water when protected with a screed

**Coverage:** Approx 0.4 - 0.5 kg/m<sup>2</sup> for two coats.

**Available Pack Sizes:** 1kg, 5kg, 10kg, 20kg & 50kg



# POLYMER FOR REPAIR AND WATERPROOFING

## Sika® Raintite I

Acrylic based multipurpose polymer for repair and waterproofing

### Features:

- Improved impermeability against water ingress
- Extremely good bonding to moist substrates, extremely improved mechanical, flexural strength and abrasion resistance properties
- UV resistant & suitable for external coating
- When used as an additive to cement based paint improves impermeability, water repellence and anti fungal property of the painted surface (site trials are always advised before application for shade variations, if any)
- Sika® RainTite I can be diluted with water (1 : Nil to 1: 4) depending on the type of application
- Screed required with Sikacim®/ Sika® Plastocrete Super to protect waterproofing layer

**Coverage:** Approx 2-5% by weight of cement depending on type of application.

**Available Pack Sizes:** 250 g, 500 g, 1 kg, 5 kg, 10 kg, 20 kg and 200 kg





# HEAT REFLECTIVE ROOF AND WATERPROOFING COATING

## Sika® CoolCoat

Single component, acrylic based, flexible, micro fibre reinforced waterproofing and heat reflective coating system

### Features:

- Cross linking polymer gives excellent weather resistance and enhances service life.
- High solar reflectance index (SRI) indicates high degree of cooling effect
- Crack-bridging
- High resistance to chloride penetration, hence highly suitable for saline environment.
- Algae and fungi resistant
- Highly flexible and Vapour permeable
- Simple and fast application
- Excellent adhesion to concrete, brickwork, corrugated asbestos, bitumen, asbestos cement sheet and metal decks
- Ultra violet rays

**Coverage:** Approx 0.75 kg/m<sup>2</sup> per coat

**Available Pack Sizes:** 10 kg x 1, 5kgx 2, 2kgx 2



# CEMENTITIOUS WATERPROOFING FOR ROOF & WET AREAS

## SikaTop<sup>®</sup> Seal-107 IN

Two pack polymer modified cementitious waterproofing slurry and protective coating

### Features:

- Easy to apply by brush or in thin trowel applications
- No additional water is required to make the slurry
- Pre batched components with consistent quality
- Hand or Spray applied
- Easy and fast mixing
- Increased frost and salt resistance
- Very good adhesion with sound and prepared substrates
- Protects concrete against water penetration, chloride and carbonation
- Non Corrosive to steel and iron
- Approved for potable water contact
- Flexible enough to bridge hairline crack
- Bonds well to all damp substrates
- Can be applied on reinforced concrete, mortar or masonry

**Coverage:** 3 kg/m<sup>2</sup> in 2 coats

**Available Pack Sizes:** Part A: 5.0 kg container, Part B: 20.0 kg bag, Part (A+B) : 25 kg ready to mix units



# CEMENTITIOUS WATERPROOFING FOR ROOF & WET AREAS

## SikaTop®-107 Seal Plus IN

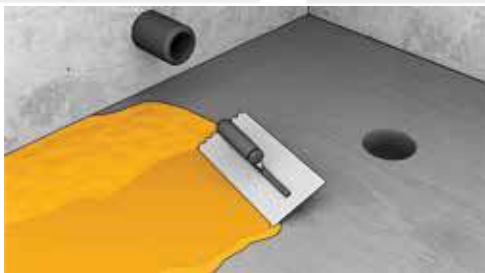
High performance acrylic cementitious waterproofing coating

### Features:

- Pre batched components in kit form with consistent quality, no weighing required at site
- Bonds well to all damp substrates, also good adhesion with most sound and prepared substrates
- Can be applied on reinforced concrete, mortar or masonry
- Easy to apply by brush or in thin trowel applications
- No additional water is required to make the slurry
- Easy and fast mixing
- Increased frost and salt resistance
- Protects concrete against water penetration, chloride and carbonation
- Flexible enough to bridge hairline crack
- Non corrosive to steel and iron

**Coverage:** 7 kg kit covers approx 25-30 sq. ft. depending on surface condition, porosity, etc.

**Available Pack Sizes:** Part A: 2 kg container, Part B: 5 kg bag, available in kit 1 kit = 7 kg ready to mix contents



# BONDING AGENT FOR STRUCTURAL MEMBERS

## Sika® Hibond

Structural bonding agent between old and new concrete

### Features:

- Long pot life and open time allows sufficient time for placement of new concrete
- Can be applied on moist surface also
- Once the two components of the material is mixed the material must be used within approx 4 hours.

**Coverage:** 1 pack of 600 g covers approximately 12-30 sq. ft. depending on roughness and porosity of substrate

**Available Pack Sizes:** 600 g



# CORROSION PROTECTION

## Sika® Rustop

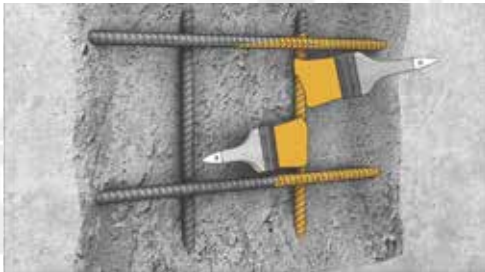
Anti-corrosive coating for steel and concrete

### Features:

- Impervious anticorrosive coating to prevent ingress of water, chlorides and carbon dioxide
- Excellent adhesion to steel, concrete and mortar
- Good bonding for subsequent concrete or mortars due to cementitious base
- Contains corrosion inhibitors
- For structures under repair or rehabilitation the corroded surfaces rust must be cleaned using Sika® Rustoff 100
- Easy to use

**Coverage:** Approx one pack of 1.25 kg covers 3 - 4 sqft. for 2 coats depending on the diameter of the reinforcement.

**Available Pack Sizes:** 1.25kg system



# CORROSION PROTECTION

## Sika® Rustoff 100

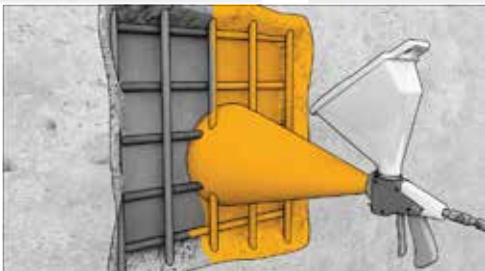
Rust remover cum passivator

### Features:

- Removes rust
- Prevents further rusting by providing a passivating coat
- To be applied with brush, cotton waste swab or spray gun on the affected metal surface
- Easy to apply since it is in liquid form
- For repairable structures when applied with brush /spray gun can reach even the most difficult rusted areas with congested reinforcements

**Coverage:** 1 kg covers approx 3 - 5 m<sup>2</sup> in 2 coats, depending on the diameter of the rod and extent of corrosion.

**Available Pack Sizes:** 250 g, 1 kg, 20 kg



# INTERIOR FINISHES - TILE ADHESIVE

## SikaCeram® -50 Tilofix

Polymer modified cementitious floor and wall tile adhesive

### Features:

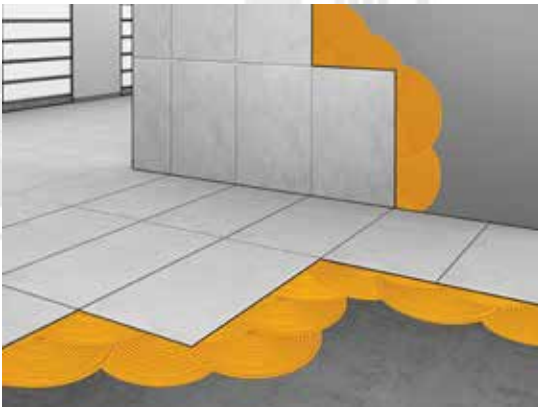
- Bonding ceramic tiles on floor and wall
- Bonding vitrified tiles upto 4 sqft on floor
- Smooth application
- Typical bonding substrates: cementitious
- Suitable for absorbent ceramic and vitrified tiles
- Easy to use, only water to be added
- Better bond than conventional cement based mortar
- Self curing

### Coverage:

Size of tiles	Notched trowel size	Consumption
Small	6 mm	4.0-4.5 kg/m <sup>2</sup>
Medium	8 mm	5.5-6.0 kg/m <sup>2</sup>
Large	10 mm	7.5-8.0 kg/m <sup>2</sup>

**Compliance:** IS 15477 - Type 1

**Available Pack Sizes:** 20 kg, 40 kg



# INTERIOR FINISHES - TILE ADHESIVE

## SikaCeram® -125 Easy Fix

Polymer modified cementitious tile adhesive for vitrified and ceramic tiles

### Features:

- Bonding floor and wall tiles
- Frost resistant
- Smooth application
- Typical bonding substrates: cementitious, gypsum
- Suitable for absorbent ceramic tiles and vitrified tiles
- Easy to use, only water to be added
- Better bond than conventional cement based mortar
- Self curing

### Coverage:

Size of tiles	Notched trowel size	Consumption
Small	6 mm	~2-3 kg/m <sup>2</sup>
Medium	8 mm	~3-4 kg/m <sup>2</sup>
Large	10 mm	~5-7 kg/m <sup>2</sup>

**Compliance:** C1T EN 12004

**Color:** Grey/White

**Available Pack Sizes:** 20 kg, 40 kg bag

### Consumption:

Consumption is dependent on the substrate, surface profile, roughness and application technique. As a guide for a single adhesive layer:

**C1T**

MANUFACTURED TO  
**EN 12004**  
CLASSIFICATION





# INTERIOR FINISHES - TILE ADHESIVE

## SikaCeram®-255 (Grey/ White)

Cement base improved with no vertical slip and extended open time adhesive for fixing vitrified tiles and natural stones. C2 TE classified according to EN 12004

### Features:

- Ready to use, only water to added
- Suitable for fixing vitrified tiles and natural stone on wall and floor, indoor & outdoor
- Laying marble and natural stone, provided not sensitive to water
- Maximum thickness of 10 mm to be maintained using notched trowel
- Suitable for applications where high performance is demanded, such as swimming pools, industrial and heavy trafficked floors

**Consumption:** As a guide, 1.2 kg per square meter per mm of thickness

**Compliance:** EN12004 - C2TE

**Color:** Grey/ White

**Available Pack Sizes:** 25 kg bag



## SikaCeram®-888 Tile Grout EP

Epoxy based grout for tile jointing

### Features:

- Very good workability in horizontal and vertical surfaces
- Easy application by trowel or gun
- Long open time for cleaning residues from the tiles with water after application
- Rapid hardening without cracking or shrinkage
- Waterproof and impermeable to liquids
- High mechanical resistance and good abrasion resistance
- Very good adhesion to ceramic tiles, mosaics, etc.,
- Provides a smooth surface, easy to clean and maintain
- Good resistance to chemical attack and steam cleaning
- Stainless and colourfast

**Compliance:** R2T EN12004, RG EN13888

**Color:** Pure White, Light Ivory, Anthracite Grey, Cement Grey, Copper Brown, Chocolate Brown, Black, Beige, Ocean Blue, Sea Blue.

**Available Pack Sizes:** 2 kg, 5 kg



## Sika® SealTape F

Crack-bridging waterproof sealing tape

### Features:

- Crack-bridging waterproof sealing tape

### Characteristics:

- High elasticity
- High breaking strength
- Easy to install
- Waterproof and watertight
- Good adhesion to Sika® waterproofing products
- Chemical resistant
- Resistant to UV exposure

**Shelf life:** 24 months from date of production

### Coverage:

Tape Width	>100 mm
Tape Length	>50 mm



# INTERIOR FINISHES - TILE ADHESIVE

## SikaCeram<sup>®</sup>-850 Design

Epoxy floor / wall tile coloured grout for joints 2-15 mm

### Features:

- Grout joint range: 2-15 mm
- Easy application using cartridge gun
- 2-part double side-by-side cartridge with static mixer nozzle
- Floor and wall application
- Available in many colours
- Low shrinkage
- Abrasion resistant
- Good chemical resistance
- Good workability
- Stain resistant and easy to clean

### Consumption:

Tile size in cm	Joint width 2 mm	Joint width 2.5 mm	Joint width 3 mm
5 × 5	1	0.5	0.25
10 × 10	2	1.5	1
20 × 20	3.5	2.5	2
30 × 60	7.5	5.5	4
60 × 60	10.5	7.5	5.5
80 × 80	14	10	7

**Color:** White, Pearl, Beige, Jasmine, Goldenrod, Gold, Glitter Gold, Glitter Grey, Glitter White, Coffee, Dark

**Available Pack Sizes:** 400 ml double side-by-side cartridge



# INTERIOR FINISHES- DAMP PROTECTION

## Sika® Multigard

Ready to use water based breathable epoxy undercoat for indoor paint

### Features:

- Easy to apply
- No solvent , no fire hazard
- For indoor application only
- No sagging in vertical application
- Excellent finish in base white colour
- Breathing out characteristic allows entrapped moisture to breath out through the coating thus preventing peeling and blistering
- Can be stained with good quality water based stainer for light shades to match the background colour in case no overcoat of paint is to be applied Easy to apply by brush or roller
- Overcoat of Sika® Wall Décor or wall putty can be applied before painting once the entrapped moisture breathes out

**Coverage:** One pack of 600 grams covers approx 20 sqft in 2 coats

**Available Pack Sizes:** 600 g



# MULTIPURPOSE SEALING TAPE

## Sika® MultiSeal

Bituminous sealing tape

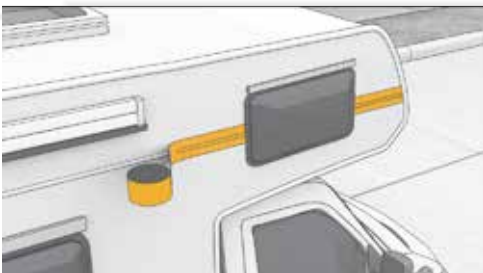
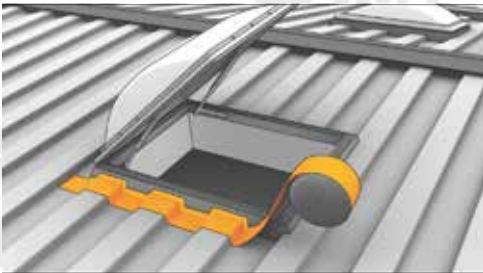
### Features:

- Very easy to apply
- Good adhesion to many substrates
- Weather-proof
- Self-adhesive
- Resistant to UV exposure
- Can be over-painted
- Can be applied at low temperatures

### Available Pack Sizes:

Width of roll 100 mm

Rolls per box 3



# APP MODIFIED MEMBRANE FOR WATERPROOFING

## SikaShield® P24 PE IN 3mm

APP modified bituminous membranes

### Features:

- It is used as waterproofing /dam proofing membrane for protection of various substrates in wide range of applications.
- Medium to large roof slabs ( domestic, commercial and industrial)
- Basements and raft slabs
- Underground car parks etc.
- Bridges and Underpass

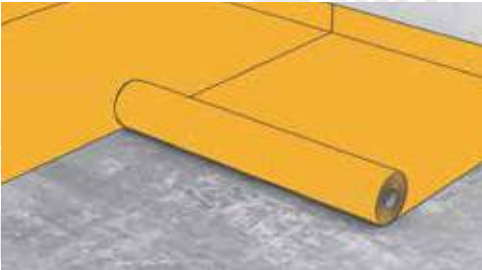
### Shelf life:

- 12 months from date of production

### APPLICATION INSTRUCTIONS

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

**Available Pack Sizes:** 1 x 10 m roll



# CRACK SEAL

## Sikadur<sup>®</sup>-20 Crack Seal

Low viscosity and semi-elastic epoxy resin

### Features:

- Semi-elastic crack sealing
- Low viscosity
- High adhesive strength
- Suitable in both, dry and damp conditions
- No shrinkage

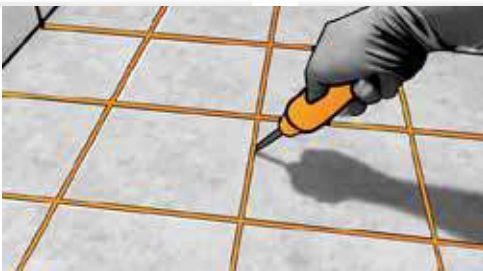
### USES

- Fill and seal non-structural crack and cavities in structural concrete such as concrete decks, balconies, concrete roof structures, wet room, swimming pool and especially before waterproofing works.
- Repair floor tile joint for leakage treatment at wet room.

**Shelf life:** 12 months from date of production

### Available Pack Sizes:

160 ml





# HIGH STRENGTH MULTIPURPOSE ADHESIVE

## SikaBond®-124 Instant Nails

High strength multipurpose adhesive

### Features:

- Easy to apply
- Rapid initial grab after flash off
- Rapid strength gain
- Wide adhesion range

### APPLICATION INSTRUCTIONS

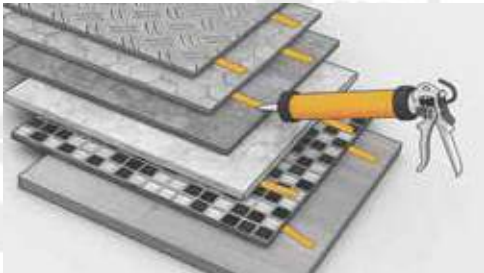
All surfaces must be clean, sound, dry and free of oil, grease and surface contamination. Thoroughly remove all loose flaking particles and dust. Light abrasion is recommended for improved adhesion.

**Shelf life:** 18 months from the date of production

### Available Pack Sizes:

333 g cartridge, 12 cartridges per box

### Coverage:



# INSTANT WATER PLUG

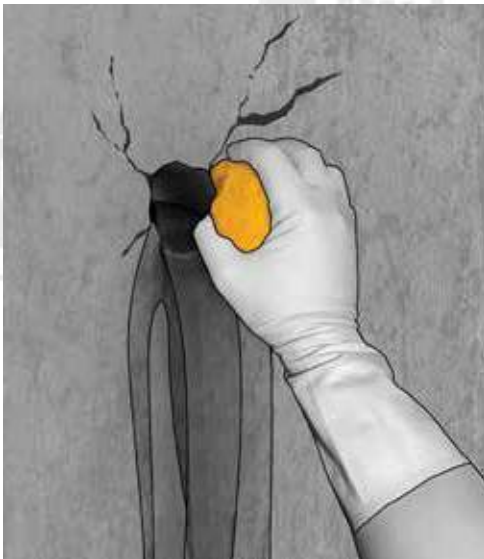
## Sika MonoTop®-108 Water Plug IN

Liquid integral water reducing cum waterproofing admixture

### Features:

- Rapid setting prevents washout in the presence of running water
- Hardens within ~2-3 minutes (+27 °C)
- Ready to use, just add water
- Quick strength development
- Non-toxic and chloride free
- Coefficient of thermal expansion is similar to concrete
- Low exothermic, which minimises risk of thermal cracking
- Excellent adhesion with different materials like masonry, concrete, metals, PVC, HDPE, etc.

**Available Pack Sizes:** 5 kg bags



## ROOF

Small House (<1500 sqft)

- Integral - SikaCim® Pink
- Liquid Membrane
  - SikaLatex® Power
  - Sika® Rainstop I
  - SikaTop® Seal-107 IN
  - Sika® CoolCoat

Medium House (1500-2100 sqft)

- Integral - SikaCim® Pink
- Liquid Membrane
  - SikaTop® Seal-107 IN
  - Sika® CoolCoat
- Sheet Membrane - Sika® WP Shield-103 P

Large House (>2500 sqft)

- Integral - SikaCim® Pink
- Liquid Membrane
  - SikaTop® Seal-107 IN
  - Sika® CoolCoat
- Sheet Membrane - Sika® WP Shield-103 P

## INTERIOR FINISHES

- Integral - SikaCim® Pink
- Wall Finish - Sika® Wall Decor
- Floor Finish - Sika® Tilefix

## COLUMNS & BEAMS

- Integral - SikaCim® Pink
- Rust Protection - Sika® Rustoff 100 Sika® Rustop
- Bonding Agent - Sika® Hibond®

## KITCHEN

- Integral - SikaCim® Pink
- Liquid Membrane - SikaTop® Seal-107 IN / SikaTop® 107 Seal Plus IN

## EXTERIOR WALLS

- Integral - SikaCim® Pink
- Liquid Membrane - Sikagard® XT

## BELOW GROUND

- Integral - SikaCim® Pink
- Liquid Membrane - SikaTop® Seal-107 IN
- Sheet Membrane - Sika® WP Shield-103 P



**SIKA INDIA PVT. LTD.**  
Plot No. D 101/2,  
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Shiravane, Nerul,  
Navi Mumbai - 400706

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