Damp walls, cracks and patches ruin the beauty of your home and getting them fixed is not an easy task. Lack of expert guidance, diagnostics, and multiple solutions available in the market for each problem are some of the reasons behind this hassle. The Asian Paints team has been working hard to ensure you’re able to address these bothersome issues with ease.

We’re proud to present the 2016 edition of the Asian Paints SmartCare Waterproofing Guide, which is an attempt at demystifying the waterproofing world.

This comprehensive guide is designed to help you pick the right waterproofing solution for your home. The easy-to-use tool helps you identify and plug the most common waterproofing issues you face.

The guide is divided into two sections for ease of usage. In the first section we offer our solutions to the most common waterproofing issues in old homes. The second section gives an overview about useful products and solutions while building new homes. These are essentially preventive solutions to waterproof your home.
SmartCare, the waterproofing brand from Asian Paints, is built on the trusted values and legacy of Asian Paints. Creating beautiful homes for end consumers has always been our aim. SmartCare offers a comprehensive range of innovative and hi-tech waterproofing solutions with an assured performance.

Dedicated experts from our Research & Development division are constantly working to create innovative and technologically superior products for assured, long-term relief in the area of waterproofing. Waterproofing is critical in maintaining the health of your home, which in turn takes care of your health.

Effective waterproofing prevents damage from water seepage, which can ruin the structural integrity of your home. Moreover, waterproofing at the right time avoids the hassle and expense of recurring repairs. We understand the importance of proper diagnostics when it comes to waterproofing. This is crucial in providing the appropriate solution for any waterproofing issue.

To cater to this need, we have created different fulfillment structures and you can conveniently pick one depending on your need. We offer waterproofing services through Asian Paints Ezycolour Home Solutions in select cities and have trained waterproofing contractors across the country as well.
Is your building an old construction? Have you made changes to the structure over the years? Over a period of time, you may have experienced issues related to leakage and dampness. Ignoring these won't help; in fact, the damage only worsens when left unattended. We'll enable you to spot the problem and fix it in a convenient and lasting way.

Facing a waterproofing problem? Fix it!

Is your building an old construction? Have you made changes to the structure over the years? Over a period of time, you may have experienced issues related to leakage and dampness. Ignoring these won't help; in fact, the damage only worsens when left unattended. We'll enable you to spot the problem and fix it in a convenient and lasting way.

Building a new home? Prevent waterproofing issues!

Prevention is better than cure, an apt saying when it comes to waterproofing. The right time to waterproof your home is at the construction stage. This is as necessary as laying a solid foundation. From the foundation to the terrace, we have a range of waterproofing solutions which will help you waterproof your home with ease. All this so that you can enjoy years of hassle-free living in your cherished home.
CURE

The Asian Paints SmartCare approach to spotting and fixing waterproofing problems

DAMPNESS
1) Above interior floor and skirting levels
2) Interior mid-level patches
3) Interior window patches
4) Interior ceiling patches
5) Interior efflorescence
6) Exterior Dampness

LEAKS
7) Active leaks in interior walls
8) Active leaks in interior ceilings
9) Active leaks in exterior walls

CRACKS
10) Interior Wall Cracks
11) Exterior Wall Cracks
12) Cracks in terrace tiles
DAMPNESS

Dampness is when the walls are moist, humid, and cold to the touch but there is no visible evidence of active water. In some cases, damp walls also have a white & powdery salt on the surface known as efflorescence.

1.1 Dampness on interior walls above the floor and skirting levels

PROBLEM

RISEING GROUND WATER

Walls (up to a height of 3 to 4 feet from the floor) become damp because of rising ground water, through capillary action. This is common in areas with a high water table, and is usually accompanied by efflorescence (white, powdery salt deposits). Efflorescence emerges at the brick level and attacks the plaster, making it loose and chalky. All subsequent putty or paintwork applied over the plaster will therefore not last.

SOLUTION

1.1A MODERATE DAMPNESS

a) Start by removing loose plaster from damaged areas and re-plaster using Asian Paints SmartCare Vitalia, an integral waterproofing compound.

b) On damp patches without efflorescence, apply Asian Paints SmartCare Damp Block waterproofing coating directly on the repaired plaster level.

c) Allow to cure.

d) Start painting based on recommended painting procedure.

1.1B EFFLORESCENCE

Where interior walls are severely affected by efflorescence it is important to first stop its effect.

a) Remove all loose plaster up to the brick level from the affected area.

b) Remove all loose material with the help of a wire brush.

c) Apply Asian Paints SmartCare Damp Block 2K waterproofing coating directly on the bricks.

d) Re-plaster this area using Asian Paints SmartCare Vitalia.

f) Finish with painting.

FOR MORE DETAILS ON THE PRODUCTS REFER TO THE PRODUCT SECTION AT THE END OF THIS BOOK. REFER TO INDIVIDUAL PRODUCT PACKS FOR DETAILED APPLICATION PROCEDURES.
## 1.2 Dampness on interior walls above the floor and skirting levels

### PROBLEM

**LEAKS FROM ADJOINING WET AREAS: KITCHEN/BATHROOM**

Leaks from adjoining wet areas like kitchens and bathrooms.

### SOLUTION

#### 1.2A MODERATE DAMPNESS

- a) Identify and plug the source of the leak with the help of an experienced plumber.
- b) Refill the joints between the tiles with Asian Paints SmartCare Cement/Epoxy Grease.
- c) For damp patches on the walls, remove loose plaster from the damaged areas and re-plaster this area using Asian Paints SmartCare Vitalia, an integral waterproofing compound.
- d) Apply Asian Paints SmartCare Damp Block waterproofing coating directly on the repaired plaster level.
- e) Allow to cure.
- f) Paint as per recommended painting procedure.

#### 1.2B EFFLORESCENCE

Identify and plug the leakage as described previously.

For interior walls severely affected by efflorescence:

- a) Remove all loose plaster up to the brick level from the affected area.
- b) Remove all loose material with the help of a wire brush.
- c) Apply Asian Paints SmartCare Damp Block 2K waterproofing coating directly on the bricks.
- d) Re-plaster using Asian Paints SmartCare Vitalia.
- e) Finish with painting.

## 2.1 Mid-level damp patches on interior walls

### PROBLEM

**LEAKS FROM ADJOINING WET AREAS: KITCHEN OR BATHROOM**

Leaks from wet areas like kitchens and bathrooms arise from faults in plumbing pipes, AC pipes, sanitary fittings or the wearing away of joints between tiles.

### SOLUTION

#### 2.1A MODERATE DAMPNESS

- a) Identify and plug the source of the leak with the help of an experienced plumber.
- b) Refill the joints between the tiles with Asian Paints SmartCare Cement/Epoxy Grease.
- c) For damp patches on the walls, remove loose plaster from the damaged areas and re-plaster this area using Asian Paints SmartCare Vitalia, an integral waterproofing compound.
- d) Apply Asian Paints SmartCare Damp Block waterproofing coating directly on the repaired plaster level.
- e) Allow to cure.
- f) Paint as per recommended painting procedure.

#### 2.1B SEVERE EFFLORESCENCE

Identify and plug the leakage as described previously.

For interior walls severely affected by efflorescence:

- a) Remove all loose plaster up to the brick level from the affected area.
- b) Remove all loose material with the help of a wire brush.
- c) Apply Asian Paints SmartCare Damp Block 2K waterproofing coating directly on the bricks.
- d) Re-plaster using Asian Paints SmartCare Vitalia.
- e) Finish with painting.
PROBLEM
RAIN WATER INGRESS FROM DEFECTS IN EXTERIOR WALLS
These waterproofing issues occur from cracks and weakened joints in the exterior walls, paint degradation, or poor maintenance, which results in rainwater seeping into the walls and causing dampness or seepage.

SOLUTION
2.2A MODERATE DAMPNESS
a) Start by identifying cracks in the exterior walls and repair them with Asian Paints SmartCare Crack Seal/SmartCare Exterior Crack Filler.
b) Follow this by applying any Asian Paints exterior emulsion coating.
c) For damp patches on the interior walls, remove loose plaster from the damaged areas and re-plaster using Asian Paints SmartCare Vitalia, an integral waterproofing compound.
d) Apply Asian Paints SmartCare Damp Block waterproofing coating directly on the repaired plaster level.
e) Allow to cure.
f) Paint as per the recommended painting procedure.

2.2B EFFLORESCENCE
Treat exterior walls as previously described. For interior walls severely affected by efflorescence, it is important to first stop its effect:
a) Remove all loose plaster up to the brick level from the affected area.
b) Remove all loose material with the help of a wire brush.
c) Apply Asian Paints SmartCare Damp Block 2K waterproofing coating directly on the bricks.
d) The plaster this area using Asian Paints SmartCare Vitalia.
e) Finish with painting.

3.1A MODERATE DAMPNESS
a) Start by identifying cracks in the exterior walls and repair them with Asian Paints SmartCare Crack Seal / Exterior Crack Filler.
b) Where there are gaps between the window frames and walls, fill these with Asian Paints SmartCare Akrylmax or Uniysureal Sealants.
c) Apply any Asian Paints exterior emulsion coating.
d) For damp patches in the interior walls, remove loose plaster from the damaged areas and re-plaster using Asian Paints SmartCare Vitalia.
e) Apply Asian Paints SmartCare Damp Block waterproofing coating directly on the repaired plaster level.
f) Allow to cure.
g) Paint as per the recommended painting procedure.

3.1B SEVERE EFFLORESCENCE
Treat exterior walls as previously described. For interior walls severely affected by efflorescence, it is important to first stop its effect:
a) Remove all loose plaster up to the brick level from the affected area.
b) Remove all loose material with the help of a wire brush.
c) Apply Asian Paints SmartCare Damp Block 2K waterproofing coating directly on the bricks.
d) Re-plaster this area using Asian Paints SmartCare Vitalia.
e) Finish with painting.

FOR MORE DETAILS ON THE PRODUCTS REFER TO THE PRODUCT SECTION AT THE END OF THIS BOOK. REFER TO INDIVIDUAL PRODUCT PACKS FOR DETAILED APPLICATION PROCEDURE.
PROBLEM
RAIN WATER SEEPA GE FROM DEFECTS IN EXTERIOR WALLS

These waterproofing issues occur when there are cracks and weakened joints in the exterior walls, paint degradation, or poor maintenance, which results in rainwater seeping into the walls and causing dampness or seepage.

PROBLEM
LEAKS IN THE KITCHEN OR BATHROOM FROM THE FLOOR OR APARTMENT ABOVE

Dampness or seepage in ceilings occur through leaks from wet areas like kitchens and bathrooms from the floor/apartment above. These failures arise from faults in plumbing pipes, AC pipes, sanitary fittings, or the wearing away of joints between tiles.

SOLUTION
3.2A MODERATE DAMPNESS
a) Start by identifying cracks in the exterior walls and repair them with Asian Paints SmartCare Crack Seal/SmartCare Exterior Crack Filler.
b) Then apply any Asian Paints exterior emulsion coating.
c) For damp patches in the interior walls, remove loose plaster from the damaged areas and re-plaster using Asian Paints SmartCare Vitalia, an integral waterproofing compound.
d) Apply Asian Paints SmartCare Damp Block waterproofing coating directly on the repaired plaster level.
e) Allow to cure.
f) Paint as per the recommended painting procedure.

3.2B EFFLORESCENCE

Treat exterior walls as described previously. For interior walls severely affected by efflorescence, it is important to first stop its effect:

a) Remove all loose plaster up to the brick level from the affected area.
b) Remove all loose materials with the help of a wire brush.
c) Apply Asian Paints SmartCare Damp Block 2K waterproofing coating directly on the bricks.
d) Re-plaster using Asian Paints SmartCare Vitalia.
e) Finish with painting.

SOLUTION
4.1A MODERATE DAMPNESS
a) Identify and plug the source of the leak in the floor above with the help of an experienced plumber, as this will prevent the problem from recurring.
b) For best results and to prevent this problem from recurring, re-waterproofing of washrooms or kitchens should be done using Asian Paints SmartCare Damp Block 2K or Asian Paints SmartCare Bathroom Waterproofing Membrane.

c) In all wet areas like washrooms and kitchens, the tiling/finishing should be checked for soundness. If there are any open joints between the tiles, refill with Asian Paints SmartCare Cement/Epoxy Grout.
d) Repair or re-plaster as needed, with Asian Paints SmartCare Vitalia integral waterproofing compound. Re-paint the ceilings as per the recommended painting system.

FOR MORE DETAILS ON THE PRODUCTS REFER TO THE PRODUCT SECTION AT THE END OF THE BOOK. REFER TO INDIVIDUAL PRODUCT PACKS FOR DETAILED APPLICATION PROCEDURE.
**PROBLEM**

LEAKS FROM TERRACE

Leaks from terraces occur from cracks in the terrace slab, blockage in the drainage pipes, waterlogging because of improper drainage, or from active leaks in water tanks.

**PROBLEM**

HIGH SALT CONTENT IN GROUND WATER & BRICKS

Migration of salt to the walls where it forms a white powdery coating is called efflorescence. It occurs when there is high salt content in ground water or masonry bricks. Salt migrates to the surface of the walls due to the presence of active water or water vapor caused by leakages or rising ground water. When the water evaporates, it leaves behind salts which de-bond the plaster making it weak and chalky. All subsequent paint films over the plaster don’t last.

**SOLUTION**

5.0A MODERATE DAMPNESS

a) For interior walls severely affected by efflorescence, remove all the loose plaster up till the brick level.

b) This system only works if applied on the bricks, since efflorescence originates at the brick level.

c) Apply 2 coats SmartCare Damp Block 2K waterproofing coating directly on the bricks.

5.0B FOR CEMENTITIOUS TANKS

a) Inspect the tank interior and exteriors for any cracks. Repair these as described earlier.

b) Waterproof the tank interior using Asian Paints SmartCare Tri Block Epoxy waterproofing coating, meant for waterproofing cementitious water tanks.

5.0A MODERATE DAMPNESS

a) High salt content in ground water or masonry bricks.

b) Migration of salt to the surface of the walls due to active water or water vapor.

c) Efflorescence: White powdery coating on walls.

5.0B FOR CEMENTITIOUS TANKS

a) Identification of cracks.

b) Repair with SmartCare Crack Seal or SmartCare Textured Crack Filler.

c) Bonding with SmartCare Multi Purpose Polymer.

d) Dual waterproofing: SmartCare Damp Block 2K and SmartCare Tri Block Epoxy.

5.0C INTERIOR DAMPNESS

a) For interior ceiling patches.

b) Inspect for cracks in the ceiling and repair them as described earlier.

c) Apply SmartCare Tri Block Epoxy waterproofing coating.
6.1 Dampness in exterior Walls

**PROBLEM**

RISING GROUND WATER

Walls up to a height of 3 to 4 feet from the floor) become damp because of rising ground water, through capillary action. This is common in areas with a high water table, and is usually accompanied by efflorescence (white, powdery salt deposits). Efflorescence occurs at the brick level and attacks the plaster, making it loose and chalky. All subsequent putty or paintwork applied over the plaster will therefore not last.

**SOLUTION**

6.1A MODERATE DAMPNES

a) Start by removing base plaster from the damaged areas and re-plaster using, Asian Paints SmartCare Vitalia, an integral waterproofing compound.

b) For damp patches without efflorescence, apply Asian Paints SmartCare Damp Block waterproofing coating directly on the repaired plaster level.

c) Allow to cure.

d) Paint as per the recommended painting procedure for exterior walls.

6.1B EFFLORESCENCE

a) Remove all loose plaster up to the brick level from the affected area.

b) Remove all loose material with the help of a wire brush.

c) Apply Asian Paints SmartCare Damp Block 2K waterproofing coating directly on the bricks.

d) Re-plaster using Asian Paints SmartCare Vitalia.

e) Finish with painting.

6.2 Dampness in exterior Walls

**PROBLEM**

LEAKS FROM ADJOINING WET AREAS LIKE THE KITCHEN OR BATHROOMS (INSIDE THE HOME)

Dampness in exterior walls can be traced to adjoining wet areas like kitchens and bathrooms (inside the house) because of faults in plumbing pipes, AC pipes, sanitary fittings, or the wearing away of joints between tiles.

**SOLUTION**

6.2A FOR CRACKS UPTO 3 MM

a) Identify and plug the source of the leak in the adjoining washroom/kitchen with the help of an experienced plumber.

b) Refill the joints between the tiles with Asian Paints SmartCare Cement/Epoxy Grout.

c) For damp patches in the walls, remove base plaster from the damaged areas and re-plaster using Asian Paints SmartCare Vitalia, an integral waterproofing compound.

d) Apply Asian Paints SmartCare Damp Block waterproofing coating directly on the repaired plaster level.

e) Allow to cure.

6.2B EFFLORESCENCE

Identify and plug the leakage as previously described. For exteriors walls severely affected by efflorescence:

a) Remove all loose plaster up to the brick level from the affected area.

b) Remove all loose material with the help of a wire brush.

c) Apply Asian Paints SmartCare Damp Block 2K waterproofing coating directly on the bricks.

d) Re-plaster using Asian Paints SmartCare Vitalia.

e) Finish with painting.

FOR MORE DETAILS ON THE PRODUCTS REFER TO THE PRODUCT SECTION AT THE END OF THIS BOOK. REFER TO INDIVIDUAL PRODUCT PACKS FOR DETAILED APPLICATION PROCEDURE.
LEAKAGES

Water dripping from the walls or ceilings is a visual representation of active leaks. This may happen because of plumbing failure in concealed pipes, high groundwater table, cracks in exterior walls leading to rainwater seeping in or seepage from adjoining leaking walls of wet areas like bathrooms and the kitchen. Leaks can cause dampness, inconvenience and spoil household items if not arrested in time.

INTERIOR LEAKS

7.0 Active leaks in interior walls

PROBLEM

LEAKS FROM WET AREAS LIKE KITCHENS OR BATHROOMS

Leaks from adjoining wet areas like kitchens and bathrooms arise from faults in plumbing pipes, AC pipes, sanitary fittings or the wearing away of joints between tiles.

SOLUTION

7.0A MODERATE DAMPNESS

a) Identify and plug the actual source of the leak in the plumbing pipes. It is recommended that an experienced plumber inspect the pipes and fitting to ascertain the real cause.
b) All existing gaps between tiles should be filled with Asian Paints SmartCare Cement/ Epoxy Grout.
c) Repair the damaged walls or re-plaster using Asian Paints SmartCare Vitalia, an integral waterproofing compound.
d) Where there are damp patches, apply Asian Paints SmartCare Damp Block waterproofing coating directly on the repaired plaster level.
e) Allow to cure.
f) Paint as per the recommended painting procedure.

7.0B EFFLORESCENCE

a) Remove all loose plaster up to the brick level from the affected area.
b) Remove all loose material with the help of a wire brush.
c) Apply Asian Paints SmartCare Damp Block 2K waterproofing coating directly on the bricks.
d) Re-plaster using Asian Paints SmartCare Vitalia.
e) Finish with painting.

FOR MORE DETAILS ON THE PRODUCTS REFER TO THE PRODUCT SECTION AT THE END OF THIS BOOK. REFER TO INDIVIDUAL PRODUCT PACKS FOR DETAILED APPLICATION PROCEDURE.
PROBLEM
LEAKS FROM TERRACE OR ROOF ABOVE
Leaks from cracks in the terrace slab, blockage in the drainage pipes, waterlogging due to improper drainage on the terrace floor or leaks from water tanks.

SOLUTION
8.0A
FOR LEAKS FROM TERRACE
a) Check the drainage pipes on the terrace for any blockage or clogging.
b) Check the terrace slab for cracks, holes and overall soundness. All cracks up to 3 mm width can be filled with Asian Paints SmartCare Crack Seal; wider cracks up to 10 mm can be filled with Asian Paints SmartCare Textured Crack Filler.
c) In case of bigger, loose cracks, repair with cement-sand-mortar treated with Asian Paints SmartCare Multi Purpose Polymer.
d) Re-waterproof and envelop the entire terrace and parapet walls with Asian Paints SmartCare Damp Proof waterproofing coating.

8.0B
FOR CEMENTITIOUS CRACKS
a) Inspect the tank interior and exteriors for any cracks. Repair these as previously described.
b) Waterproof the tank interior using Asian Paints SmartCare Tri Block Epoxy waterproofing coating, meant for waterproofing cementitious water tanks.

PROBLEM
LEAKS FROM KITCHENS OR BATHROOMS
Leaks in exterior walls occur from adjoining wet areas like kitchens and bathrooms (inside the house) from faults in plumbing pipes, AC pipes, sanitary fittings, or the wearing away of joints between tiles.

SOLUTION
9.0A
ACTIVE LEAKS
a) Identify and plug the source of the leak in the adjoining washroom/kitchen with the help of an experienced plumber.
b) Refill the joints between the tiles with Asian Paints SmartCare Cement/Epoxy Grout.
c) Where there are damp patches on the walls, remove loose plaster from the damaged areas and re-plaster using Asian Paints SmartCare Vitalia, an integral waterproofing compound.
d) Apply Asian Paints SmartCare Damp Block waterproofing coating directly on the repaired plaster level.
e) Allow to cure.

FOR MORE DETAILS ON THE PRODUCTS REFER TO “PRODUCT SECTION” AT THE END OF THIS BOOK. REFER TO INDIVIDUAL PRODUCT PACKS FOR DETAILED APPLICATION PROCEDURE.
CRACKS

Cracks in plastered walls are common especially in older homes. Plaster cracks may result from stress caused by movement in the structure. One of the biggest reasons for cracks to appear is change in ambient moisture & temperature levels and different expansion coefficients between mortar plaster, bricks, concrete and steel. Also, at the time of fresh construction, if the correct cement-sand ratio is not maintained, it may result in cracks.

10.0 Interior Wall Cracks

PROBLEM
CRACK IN WALLS ON MASONRY OR POP SURFACES
Cracks in interior walls are caused due to movements in the structure, changes in temperate and moisture, and because of deficiencies in the cement and sand ratio at the time of construction.

SOLUTION
10.0A MODERATE DAMPNESS
a) Check the plaster for soundness and bonding. If the plaster is damaged, re-plaster the surface using Asian Paints SmartCare Vitalia. Allow to cure.
b) All existing cracks up to 3 mm width can be filled with Asian Paints SmartCare Crack Seal. For bigger, loose cracks, repair with cement-sand-mortar treated with Asian Paints SmartCare Multi-Purpose Polymer.
c) To prevent cracks from reappearing on the entire wall surface, use Asian Paints SmartCare Crack Shield crack treatment solution, which provides edge-to-edge protection.
d) In case of any dampness-related issue, refer the section on interior dampness or leaks.

FOR MORE DETAILS ON THE PRODUCTS REFER TO THE PRODUCT SECTION AT THE END OF THIS BOOK. REFER TO INDIVIDUAL PRODUCT PACKS FOR DETAILED APPLICATION PROCEDURE.
PROBLEM
CRACKS IN WALLS ON MASONRY SURFACES
Cracks can come in all shapes and sizes. However most fractures in your walls will allow water to slowly seep into the house and possibly cause dampness.

SOLUTION
11.0A FOR TERRACE SLAB CRACKS
a) Check the plaster for soundness and bonding. If the plaster is damaged, re-plaster the surface using Asian Paints SmartCare Vitalia. Allow to cure.
b) All existing cracks up to 3 mm width can be filled with Asian Paints SmartCare Crack Seal. For cracks greater than 3 mm width, use Asian Paints SmartCare Textured Crack Filler.
c) For any dampness-related issues, refer the section on exterior dampness or leaks.

PROBLEM
CRACKS IN HORIZONTAL TERRACE SLABS
Cracks in the terrace slabs appear due to movement and settling of the slabs, temperature variations, and the differential expansion properties between the slab and the parapet walls.

SOLUTION
12.0A TERRACE CRACKS
a) Check the terrace slab for cracks, holes and overall soundness. All cracks up to 3 mm width can be filled with Asian Paints SmartCare Crack Seal; wider cracks up to 10 mm can be filled with Asian Paints SmartCare Textured Crack Filler.
b) For bigger, loose cracks, repair using cement-sand-mortar treated with Asian Paints SmartCare Multi-Purpose Polymer.
c) Re-waterproof and envelop the entire terrace and parapet walls with Asian Paints SmartCare Damp Proof waterproofing coating.
PREVENTION

The Asian Paints SmartCare approach to waterproof a new home

PREVENTIVE SOLUTIONS
1) Laying Foundations
2) Cement-related construction
3) Bathrooms
4) Tiling jobs
5) Terraces
6) Window and door joints
7) Cement water tanks
8) Comprehensive Solution
Due to the capillary movement of water, the water rises from the soil to the building. As it passes through the foundation, it rises higher and reaches the walls. To prevent the water from reaching the walls, a damp-proofing course should be laid at the plinth level.

Asian Paints SmartCare Vitalia
SmartCare Vitalia is a high-end yet economical chemical, which is added to concrete during the mixing stage. It breaks the micro capillaries formed in concrete after setting, and as a result, water is prevented from moving through concrete to cause waterproofing issues in the structure and walls. Integral Waterproofing for all cement-related construction

CEMENT IS USED IN ALMOST ALL CONSTRUCTION FOR PLASTERING AND LAYING CONCRETE.

However, by its very nature, cement shrinks over time, which results in cracks in the plaster or concrete. The water-cement ratio, if not maintained, causes capillaries to form and results in damp and leaks.

Asian Paints SmartCare Vitalia
When added to cement, SmartCare Vitalia enhances the workability of the plaster mix, thus reducing the need for water. Less water in the plaster improves its compressive strength, water permeability reduces and surface crack formation is minimised.
THIS APPLIES TO ALL TILING IN THE HOUSE, INCLUDING BATHROOMS.

Conventionally, tiling is done with only cement and sand. However, this is not the best solution as it is not very durable and doesn’t offer any type of waterproofing.

SOLUTION

Asian Paints SmartCare Tiling Solutions

1. Asian Paints SmartCare Tile Adhesives and Tile Grouts
2. Asian Paints SmartCare Damp Block 2K
3. Asian Paints SmartCare Bathroom Waterproofing Membrane
4. Asian Paints SmartCare Damp Block 2K

For more details on the products, refer to the product section at the end of this book. Refer to individual product packs for detailed application procedures.
**6.0 Window and door joints**

Rain water can enter from all cracks and joints, leading to dampness.

**SOLUTION**

Asian Paints SmartCare Sealants

SmartCare Unyverseal and SmartCare Akrylmax sealants are imported international grade sealants designed to offer superior gap and joint filling capability and excellent weather resistant properties. These can be used for a variety of solutions and are easy to apply.

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**5.0 Terraces**

**WHETHER FLAT OR SLOPING, A TERRACE IS EXPOSED TO SEVERE WEATHER CONDITIONS THROUGHOUT THE YEAR**

If a terrace is not waterproofed properly, it leads to damp patches on the ceiling. In severe cases, water seeps down and results in leaks.

**SOLUTION**

Asian Paints SmartCare Damp Proof

This is an easy-to-apply elastomeric liquid coating, which forms a seamless film on drying. It gives durable waterproofing protection to your terrace, and also accessibility to normal foot traffic. It has been designed to offer heat reflectance properties by reducing the surface temperature up to 7-8 degrees.

**FOR MORE DETAILS ON THE PRODUCTS REFER TO THE PRODUCT SECTION AT THE END OF THIS BOOK. REFER TO INDIVIDUAL PRODUCT PACKS FOR DETAILED APPLICATION PROCEDURES.**
7.0 Cement Water Tanks

OUTDOOR CEMENTITIOUS WATER STRUCTURES

In outdoor cement water tanks where concrete is primarily used, cracks will appear over time because concrete is less flexible. This can cause waterlogging and dampness and leaks in the floors below.

SOLUTION

Asian Paints SmartCare Tri Block Epoxy

This is a superior, food grade certified coating for waterproofing all types of cementitious surfaces and water storage structures. It is designed for ease of application in all types of large and small cementitious tanks from within, with a good microbial performance.

8.0 Comprehensive Solution

ALL CRITICAL AREAS OF WATERPROOFING FROM FOUNDATION STATE TO TERRACE

Waterproofing for fresh constructions means coverage of all the critical areas, from the foundation slab to the terrace or roof. Use Asian Paints SmartCare Vitalia, an integral waterproofing compound for all cement work at the foundation level.

SOLUTION

Plaster cement using Asian Paints SmartCare Vitalia, an integral waterproofing compound. Application of Asian Paints Bathroom Waterproofing Membrane with a 10 Year Warranty or Apply two coats of Asian Paints SmartCare Damp Block 2K waterproofing coat directly on the sunken slab before the application of tiles. Asian Paints SmartCare Tile Adhesives (all 3 types) waterproof the entire horizontal terrace surface with 3 coat application of Asian Paints SmartCare Damp Proof. Apply Asian Paints SmartCare Unyverseal, Acrymax in all joints. Waterproof the interior side of the tank with 2 coats of Asian Paints SmartCare Tri Block Epoxy waterproofing coating with a 2 Year Warranty. This product is certified for storing potable water (drinking water). Refer to the individual packs for application procedure.
PRODUCTS

Recommended products to tackle your waterproofing issues
**Products**

**TERRACE WATERPROOFING**

Asian Paints SmartCare Damp Proof is a fiber reinforced elastomeric liquid applied water proofing membrane. It is formulated with select elastomers and resilient acrylic polymers and reinforcing polyester fibers. Upon curing, it forms a thick, seamless, durable membrane thus offering ultimate waterproofing.

Asian Paints SmartCare Terrae Tile Primer is a water based acrylic primer for terrae having porous and non-porous substrates such as existing china chips, tiles or old paints, and sealed or burnished concrete terrae roofs. This is a single component hybrid polymer based primer that provides excellent adhesion to SmartCare Damp Proof.

Asian Paints SmartCare Joint Tapes are intended for waterproofing of all ‘L’ shaped construction joints in buildings and residential areas. These are made of advanced elastomer EPDM rubber which characterizes very good elasticity, viscosity and weather resistance.

**CRACK SOLUTIONS**

Asian Paints SmartCare Crack Seal is a single pack fibre glass reinforced crack filling compound for both interior and exterior plaster cracks up to 3 mm. It comes as a ready-to-apply white coloured paste.

Asian Paints SmartCare Terrae Tile Primer is a water based acrylic primer for terrae having porous and non-porous substrates such as existing china chips, tiles or old paints, and sealed or burnished concrete terrae roofs. This is a single component hybrid polymer based primer that provides excellent adhesion to SmartCare Damp Proof.

Asian Paints SmartCare Joint Tapes are intended for waterproofing of all ‘L’ shaped construction joints in buildings and residential areas. These are made of advanced elastomer EPDM rubber which characterizes very good elasticity, viscosity and weather resistance.

**JOINTS AND GAP SOLUTIONS**

Asian Paints SmartCare AkryMite is an acrylic emulsion based plastic elastic sealant for sealing masonry joints that can be top coated with a water-based paint. The product after evaporation forms a soft plastic elastic rubber and is applicable on interiors and exteriors.

Asian Paints SmartCare UneyrSeal is a durable and odourless neutral silicone sealant for sealing of glass, masonry and sanitary joints. It is a non-sloppy elastic sealant based on high quality polydimethacrylate which cures with atmospheric moisture to form a durable seal.

**INTERIOR WATERPROOFING SOLUTIONS**

Asian Paints SmartCare Damp Block is a polymer modified, flexible cementsitious waterproofing coating. It is a single pack high performance cementsitious product formulated with elastic waterproofing polymers, nano technology based additives and crystalline technology.

Asian Paints SmartCare Damp Block 2K is a two component acrylic polymer modified cementitious high performance coating. This product can be used for both positive and negative side waterproofing due to its unmatched bonding, good waterproofing and excellent resistance to hydrostatic pressure.

**BATHROOM WATERPROOFING SOLUTIONS**

Asian Paints SmartCare Bathroom Waterproofing Membrane is a triple-layered, tough, elastic and alkali resistant sealing laminated film. Paintable film using SmartCare Tile Adhesive for providing long lasting bathroom waterproofing.

SmartCare Damp Block 2K is a two-component acrylic polymer modified cementitious high performance coating. This product can be used for both positive and negative side waterproofing due to its unmatched bonding, good waterproofing and excellent resistance to hydrostatic pressure.

**CRACK DRESSING**

- **Supreme Technology**
  - Weather & Chemical Resistant
  - Flexibility
  - String Reinforcement

**JOINTS DRESSING**

- **Supreme Technology**
  - Weather & Chemical Resistant
  - Flexibility
  - String Reinforcement

- **Excellent Adhesion**
  - Supreme Flexibility
  - Hybrid Technology

- **Superior Technology**
  - Weather & Chemical Resistant
  - Flexibility
  - String Reinforcement

**INTERIOR WATERPROOFING SOLUTIONS**

- **Crystaline & Nano Technology**
  - Flexibility
  - Excellent Bend Strength
  - Water Transfer Permeability

- **High Elastic Film**
  - Anti-Breathability
  - Anti-Corrosion
  - Modified Coating
  - Excellent Bend Strength
  - High Solid Content

**HIGH TEAR STRENGTH**

- **Excellent Adhesion**
  - High Tear Resilience
  - Tough and Alkali Resistant

- **Heavy Elastic Film**
  - Anti-Breathability
  - Anti-Corrosion
  - Modified Coating
  - Excellent Bend Strength
  - High Solid Content
Asian Paints SmartCare Tile Adhesive for Normal Application is a single component cement based polymer modified adhesive for fixing tiles on floors and walls in interiors as well as exteriors. It improves the adhesion of SmartCare Tile Adhesives.

Asian Paints SmartCare Tile Adhesive for Tile-on-Tile Application is a single component cement based polymer modified adhesive for fixing tiles over tiles on floors and walls in interiors as well as exteriors. The product contains special additives that provide excellent bonding & grabbing properties.

Asian Paints SmartCare Tile Adhesive is single component cement based polymer modified, fiber reinforced adhesive for fixing glass mosaic tiles in interiors as well as exteriors.

Asian Paints SmartCare Glass Tile Adhesive is single component white cement based polymer modified, fiber reinforced adhesive for fixing glass mosaic tiles in interiors as well as exteriors.

Asian Paints SmartCare Tile Grout Epoxy Based is a two component epoxy resin based tile grout specifically designed for use in application of ceramic tile, vitrified tile and stone joints where a hygienic and sterile condition is expected.

Asian Paints SmartCare FabSeal is a fast curing multi-purpose, instant leak plugging compound. It is composed of special cement, properly graded fillers, additives & polymers which set very fast, when contact with water. It is ideal for instantaneous sealing of leaks and plugging wet cracks in concrete and masonry surfaces. It is specially formulated to stop the flow of running water.

Asian Paints SmartCare Tiger is a two component, quick-setting, white cement based polymer modified, fiber reinforced adhesive for fixing tiles on floors and walls in interiors as well as exteriors. The product contains special additives that make the cement concrete/joint mix cohesive and upon curing, reduces water permeability.

Asian Paints Epoxy Tri-Black is an epoxy cementitious coating for positive side waterproofing of cementitious water retaining structures.

Asian Paints Epoxy Tri-Black is an epoxy cementitious coating for positive side waterproofing of cementitious water retaining structures.

Asian Paints SmartCare Multi-purpose Polymer is a high performance acrylic emulsion based binder that enables fixing of natural stones and heavy tile cladding on vertical surfaces in interiors as well as exteriors by substantially improving the adhesion of SmartCare Tile Adhesives.

Asian Paints SmartCare Multi-purpose Polymer is a high performance acrylic emulsion based binder that enables fixing of natural stones and heavy tile cladding on vertical surfaces in interiors as well as exteriors by substantially improving the adhesion of SmartCare Tile Adhesives.

Asian Paints SmartCare Instant Leak Stop is one component instant leak plugging compound. It is composed of special cement, properly graded fillers, additives & polymers which set very fast, when contact with water. It is ideal for instantaneous sealing of leaks and plugging wet cracks in concrete and masonry surfaces. It is specially formulated to stop the flow of running water.

Asian Paints SmartCare FabSeal is a fast curing multi-purpose, instant leak plugging compound. It can be used in both wet and dry conditions. The two component system can be used for fixing tiles, holes, delamination or cracks in materials such as metals, plastics, fiberglass, concrete or ceramics.
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