

NO ROOM FOR WATERPROOFING PROBLEMS





Home is where the heart is, home is where happiness knows no bounds, home is where love flows effortlessly and a place that you want to come back to at the end of the day.

But as much as you need your home, your home needs you too. Protect it from all leakage related problems using SmartCare range of waterproofing products from Asian Paints.

In this guide, you will find precautions and solutions that you can take to keep your home safe from interior dampness, exterior dampness, cracks, gaps, tile fixing issues and will make sure that your home has no room for anything else but you.



NO ROOM FOR CRACKS

Cracks

Cracks in your walls aren't just ugly, they can be warning signs for very serious problems in your home too. They can affect the beauty of your walls and overall foundation of the house. These can be in the plaster or the structure altogether.

What causes them?

Some cracks are normal and come from the natural aging process of a home. When it comes to cracks, horizontal ones are more indicative of trouble. Cracks due to improper plastering or structural issues are generally found in load bearing areas.

Why treat them?

Cracks need to be treated because they can allow water to seep in from outside into the walls and damage the structure with dampness. It's even more critical to treat structural cracks because if water enters them, it can damage the load bearing part, which can make the entire structure weak. In fact structural cracks that occur due to incorrect design, faulty construction or overloading may endanger the safety of a building altogether so it's necessary to treat them.



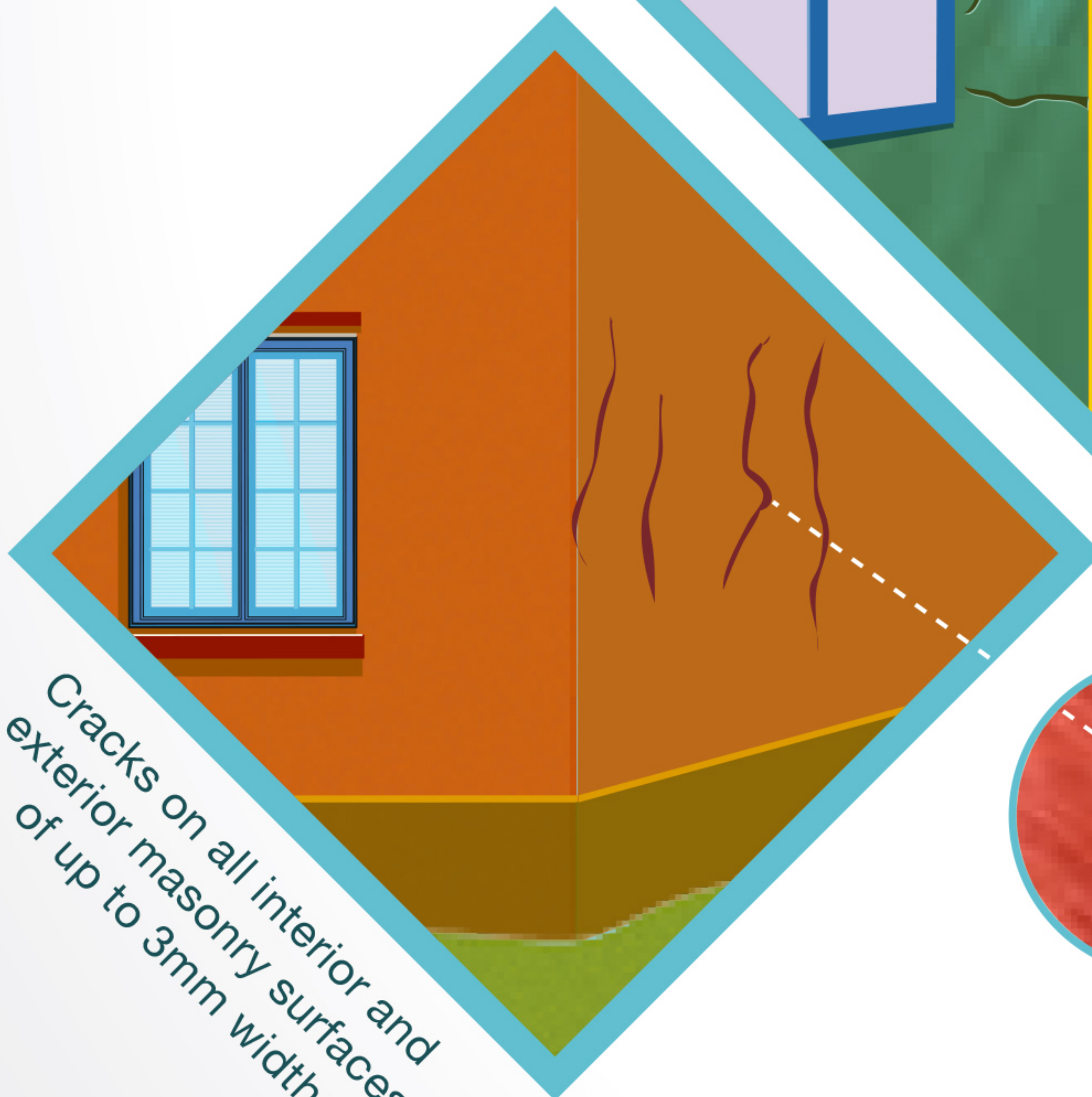
AFFECTED AREAS OR AREAS TO BE TREATED



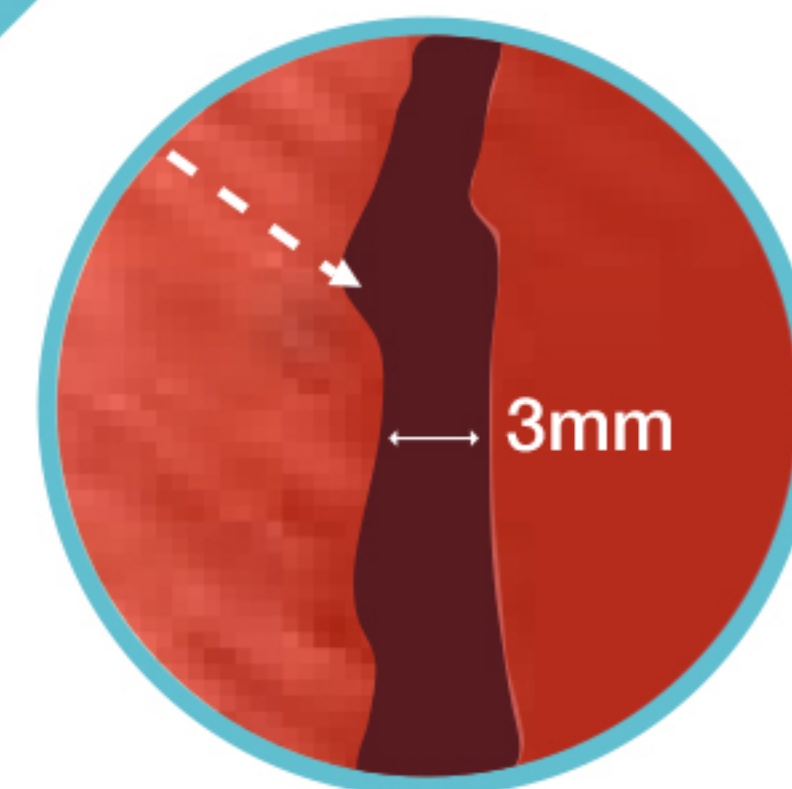
Cracks and gaps in interiors



Cracks and gaps in exteriors



Cracks on all interior and exterior masonry surfaces of up to 3mm width



CRACK SEAL



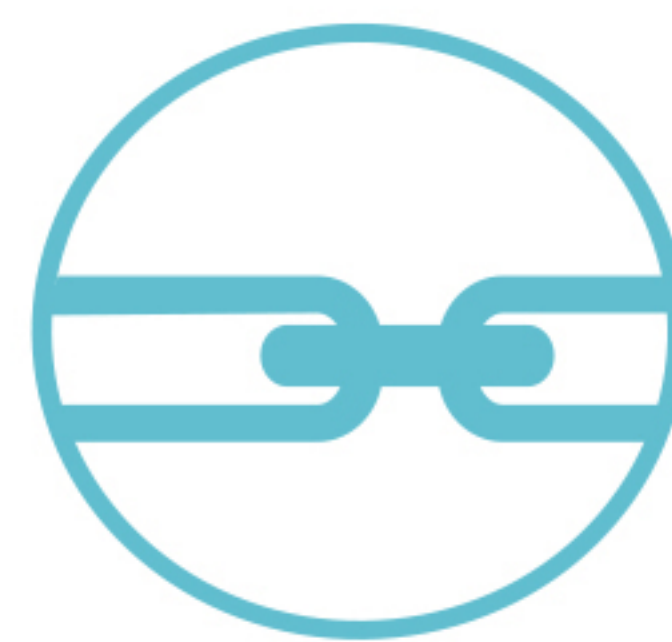
Asian Paints SmartCare Crack Seal is a single pack fiber-glass reinforced crack-filling compound for both interior and exterior surfaces. It comes as a ready-to-apply white coloured paste.



Crack Bridging:
Strong filling capacity for plaster cracks of up to 3mm width.



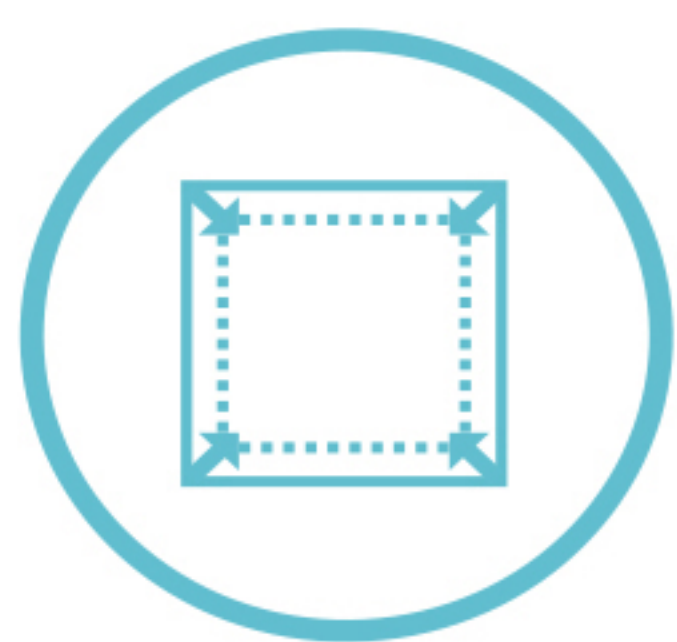
Flexibility:
High elongation film that accommodates minor movements.



Mechanical Strength:
Strong fibre-glass reinforced film does not let cracks reappear.



Waterproofing:
Water-resistant film stops water entry through cracks.



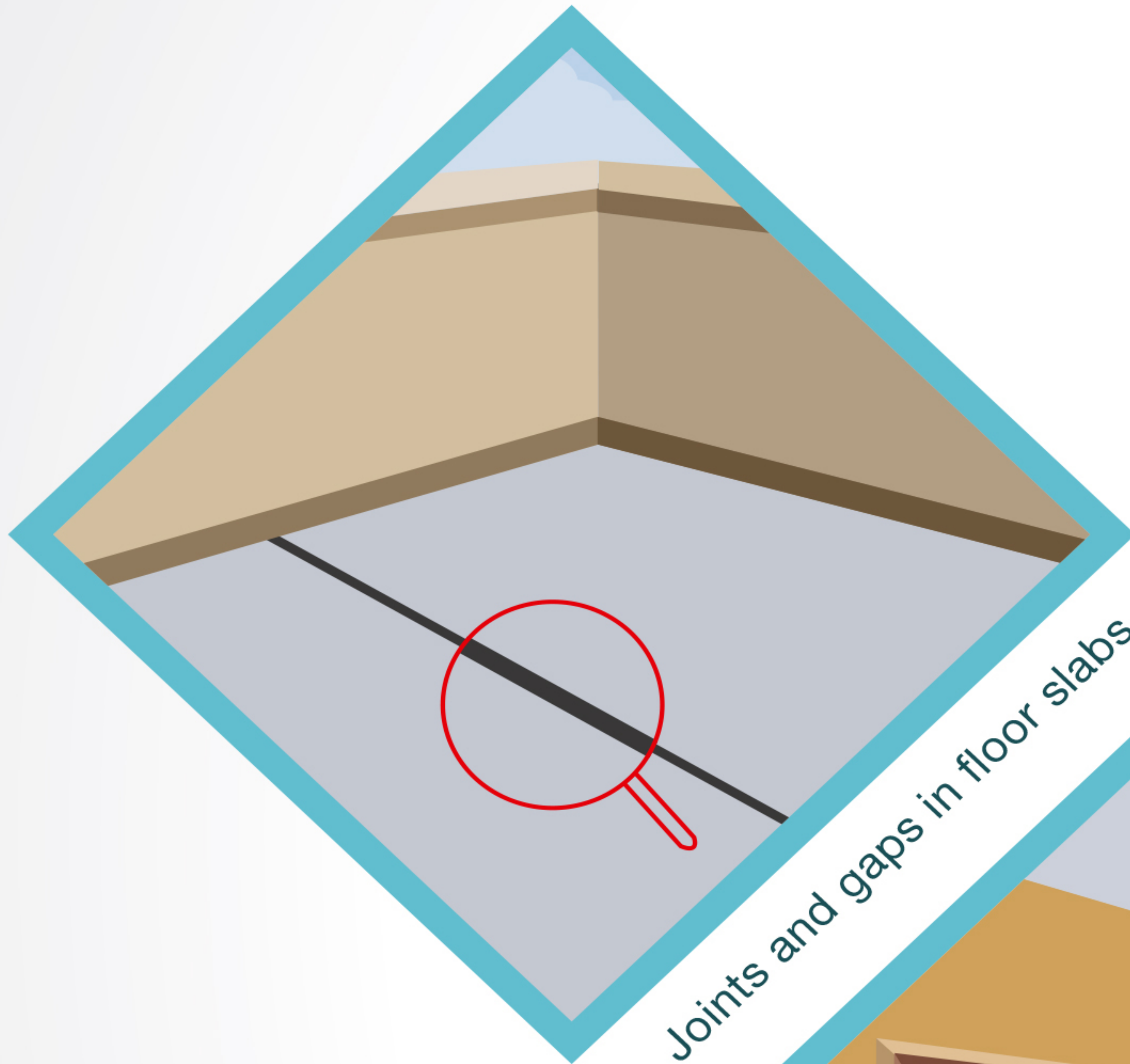
Low Shrinkage:
Does not leave a mark after painting.



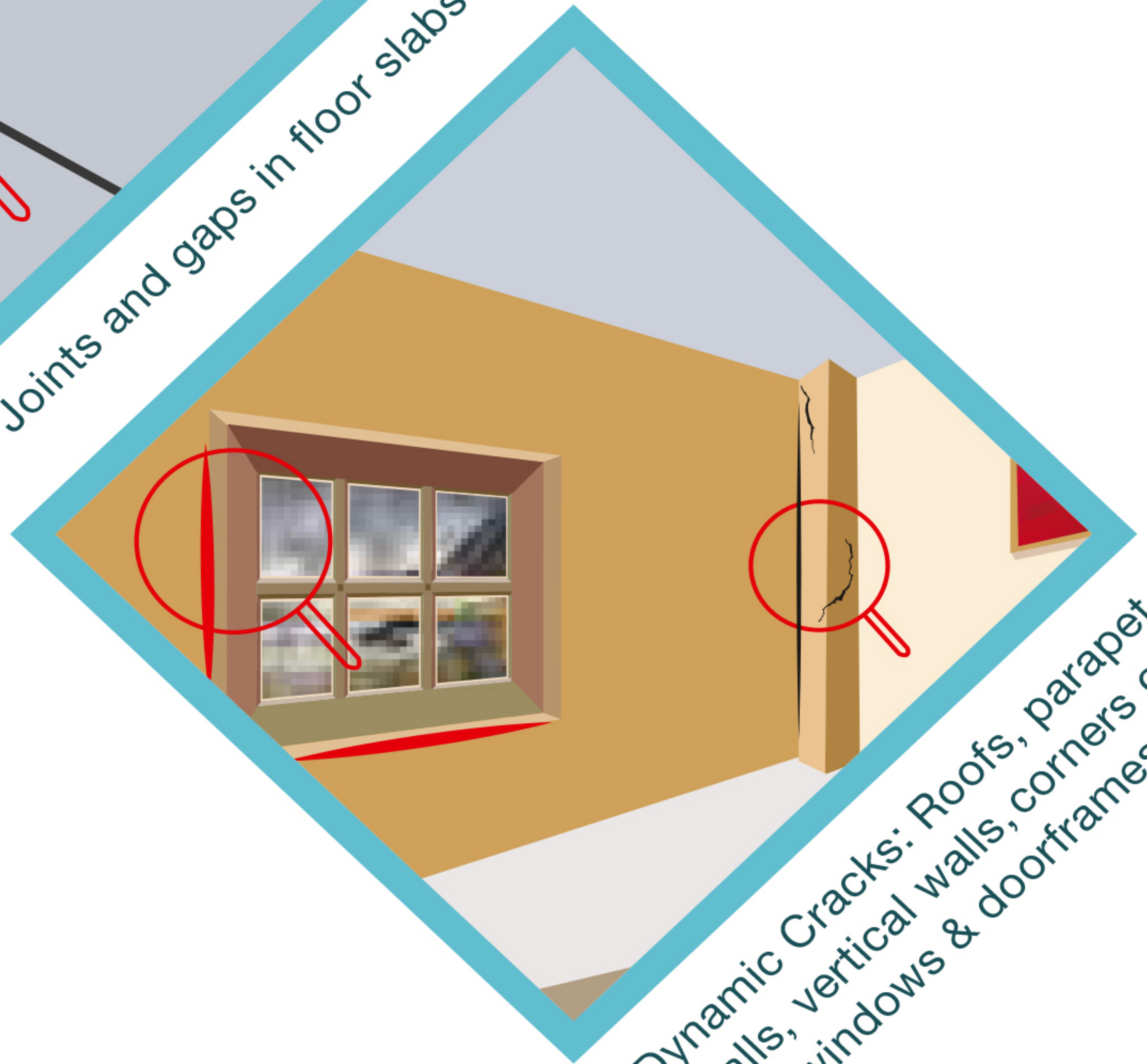
Usage:
Single ready-to-use pack and easy-to-apply product.

Product Features & Benefits

AFFECTED AREAS OR AREAS TO BE TREATED



Joints and gaps in floor slabs



Dynamic Cracks: Roofs, parapet walls, vertical walls, corners of windows & doorframes

HYBRID PU SEALANT



Asian Paints SmartCare HYBRID PU SEALANT is a single component, durable & silylterminated polyurethane sealant for sealing of dynamic joints and cracks.

Product Features & Benefits



Environment friendly



Excellent adhesion



Gap filling
Can be used for joints up to 40mm.



Flexible
Allows joint movement up to +/- 25%.



Paintable

NO ROOM FOR TERRACE LEAKAGES

Terrace Leakages

Terrace indeed is the most important part of your house. A properly constructed and well-maintained terrace has an effective life of around 30 to 50 years. But leakages play a silent demon to it, causing damage and deterioration of the overall life of the roof, thus weakening the integrity of the structure altogether.

What causes it?

Leakage and seepage can be caused by improper slop, clogged drainage pipes, cracks and damages on the terrace slab, resulting in standing water on the roof which leads to seepage and leakage on the floor below.

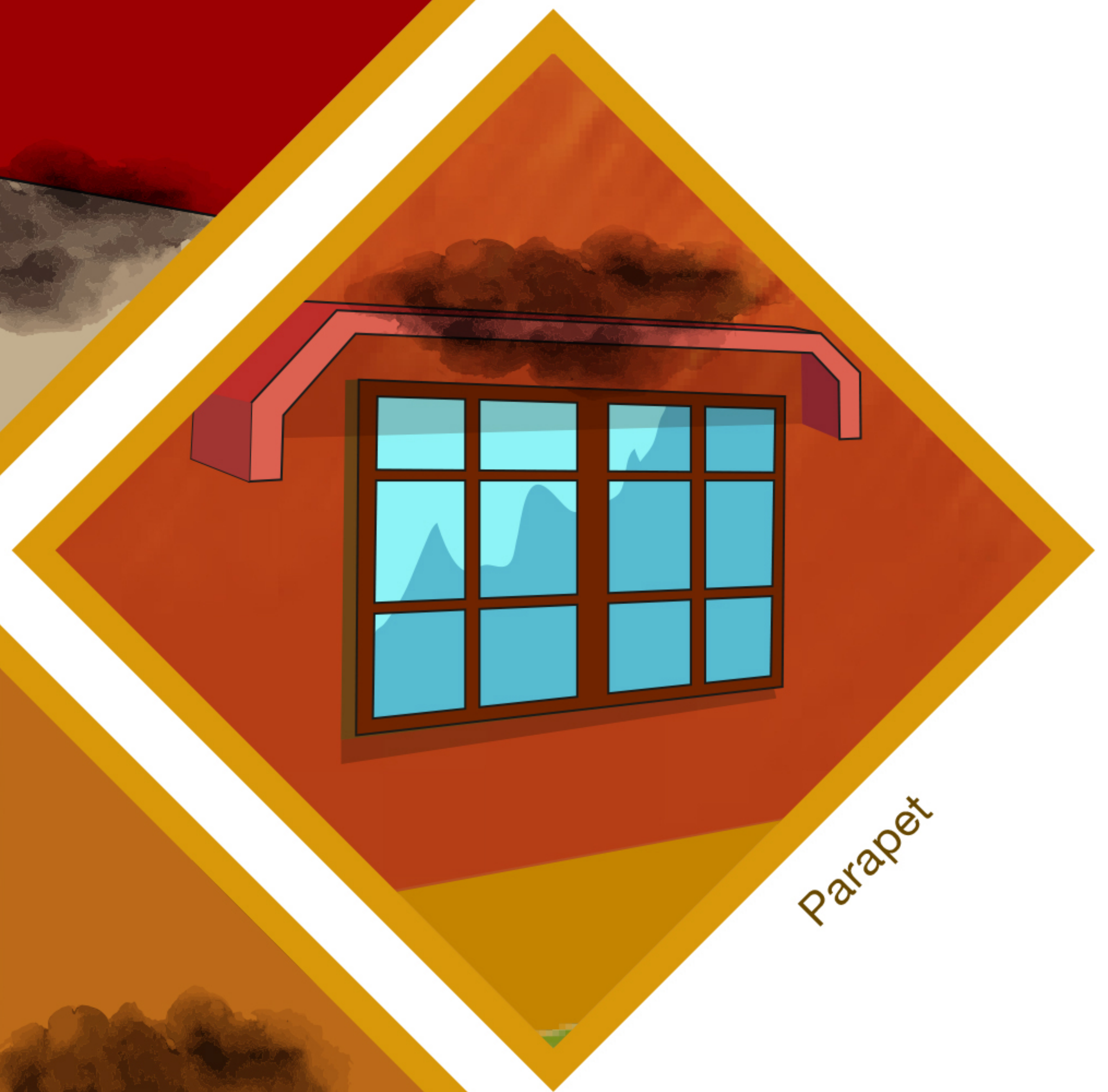
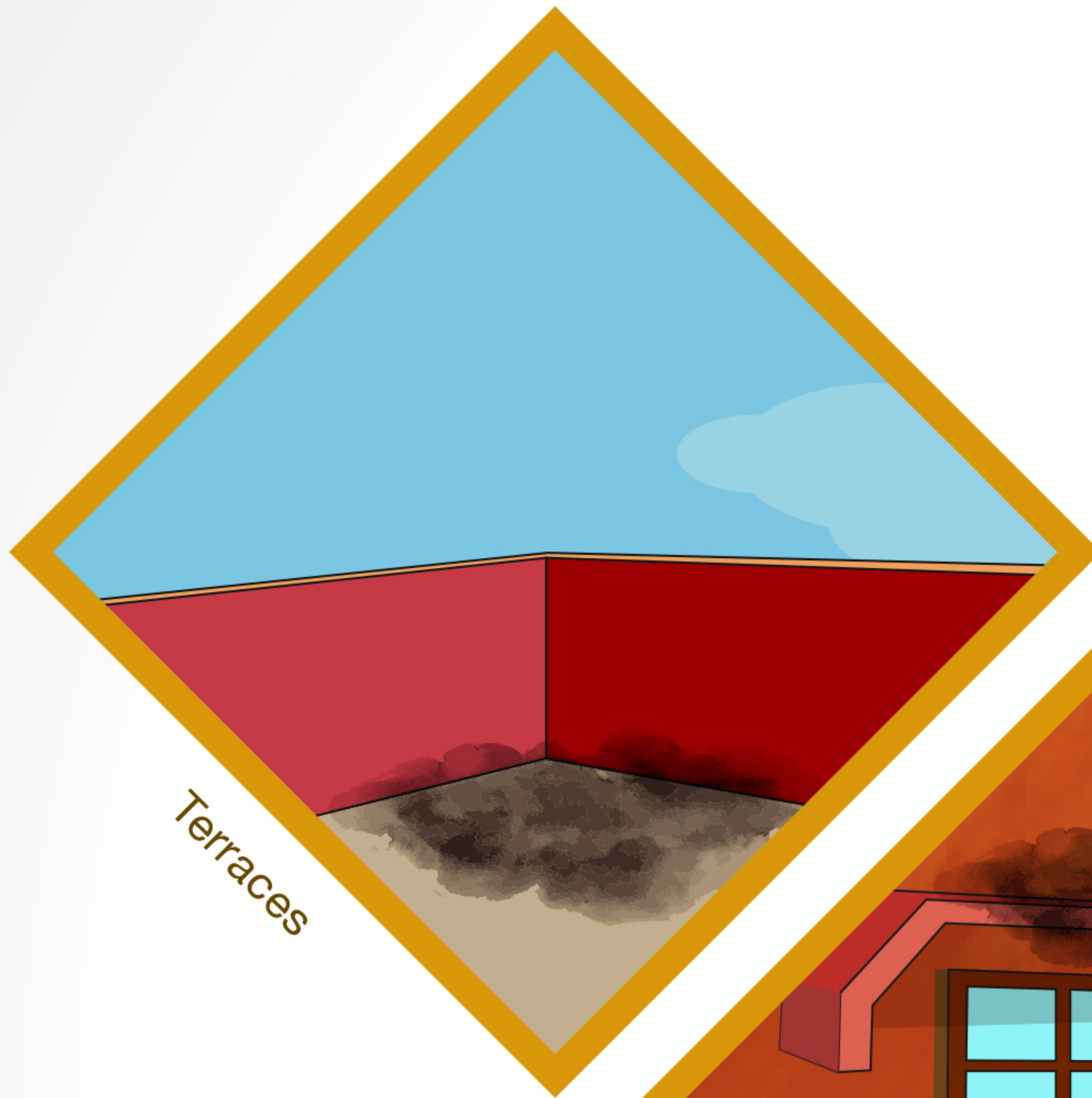
Why treat it?

Dampness damages much more than a building's appearance. The simplest and most effective way to safeguard your roof from water damage is through regular checks and monitoring. For best protection, these should be coated with water-proofing coatings otherwise the interiors of your house may also get affected by it.



TERRACE LEAKAGES

AFFECTED AREAS OR AREAS TO BE TREATED



DAMP PROOF



Asian Paints SmartCare Damp Proof is a fiber-reinforced elastomeric liquid applied waterproof coating. Upon curing, it forms a seamless, durable membrane to offer excellent waterproofing.



Waterproofing
Waterproofing protection of up to 7 bars hydrostatic pressure from the positive side.



Crack Bridging:
High film elongation allows excellent crack bridging ability for cracks up to 0.8mm on terraces and 2mm on vertical walls.



Anti-Carbonation:
Protection against carbon dioxide and chloride ion diffusion to maintain the strength of the structure.



Heat Proof:
Brilliant white coat and high Dry Film Thickness (DFT) of 650 microns results in high heat reflection that result in cool interiors.



Mechanical Strength:
Fibers in the coating offer very strong mechanical properties and abrasion resistance to the film.



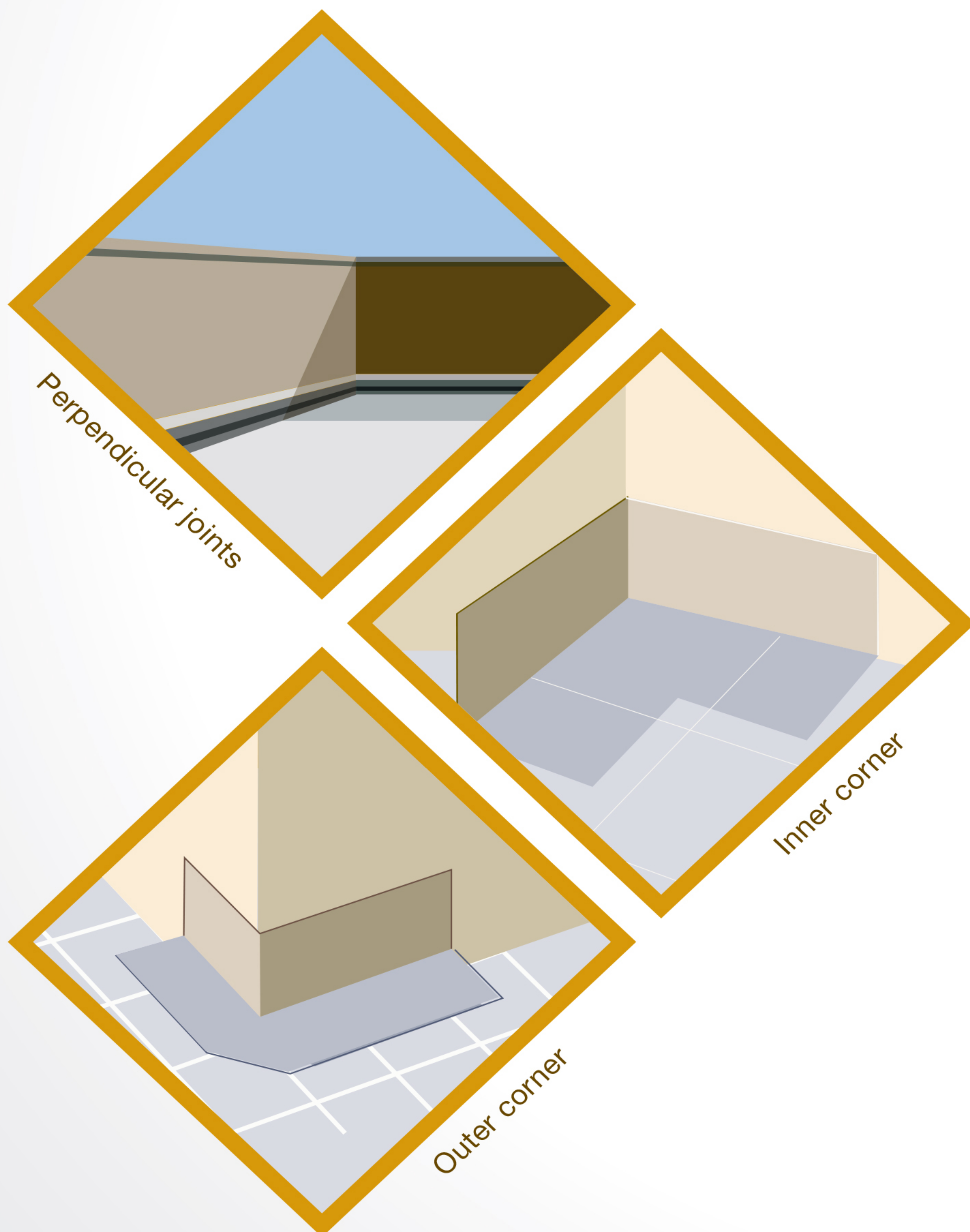
Ease of Use:
Single pack, easy-to-apply and simple recoating for maintenance.

Product Features & Benefits

Additional Reinforcement for Terrace Corners and Joints

Terrace corners, parapet walls and other perpendicular joints (as shown in the picture below) are prone to cracks because of expansion and contraction of walls due to weather changes and general vibrations that may affect a building. These cracks then allow water to seep through them and reach the interior ceilings causing dampness.

Thus, Roof Tapes come handy as an additional reinforcement to the Damp Proof films so that there's no leakage from such cracks.



JOINT TAPES



Asian Paints SmartCare Roof Tapes are intended for waterproofing and sealing of parapet joints, terrace joints, walls connecting joints and other construction joints and cracks. It is specifically for residential areas, which exhibit normal and reduced stress (expansion). This product composes advance elastomer EPDM rubber, which is characteristic of very good elasticity and viscosity.

It's required to be applied along with Asian Paints Damp Proof.

The system together ensures best in class and long lasting waterproofing. For a detailed application procedure, please refer to the application procedure on page:



Flexibility & Strong Reinforcement

Very good flexibility to withstand and accommodate movements in the structure.



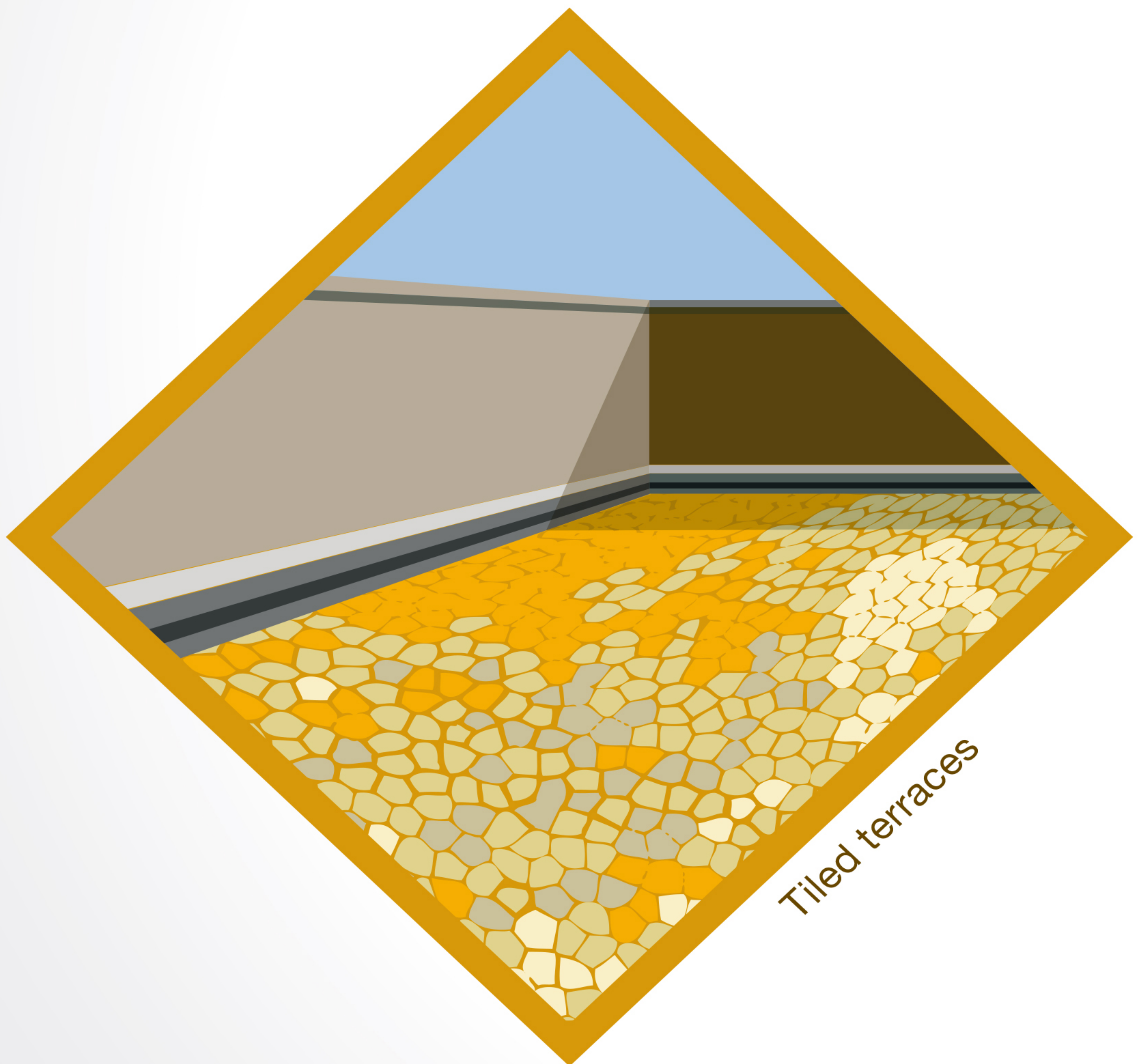
Weather Resistant

Strong resistance to heat, UV radiations and chemicals.

**Product Features
& Benefits**

For Damp Proof Coating on Tiled Terraces

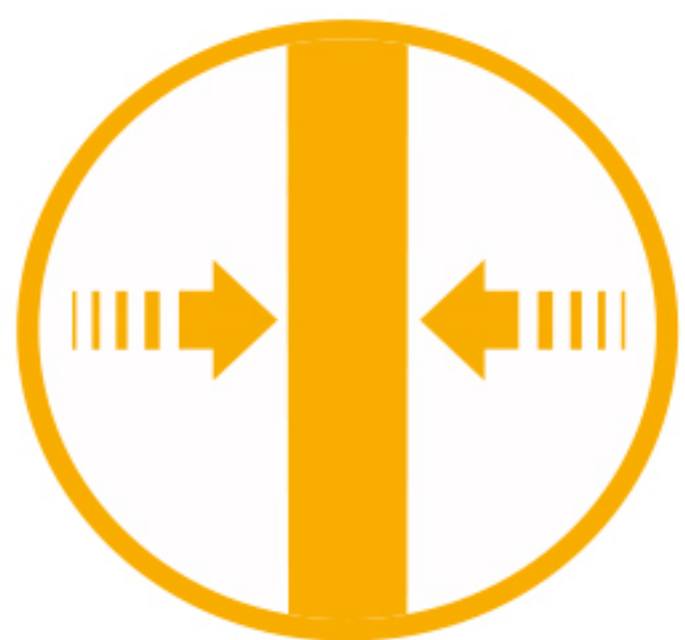
Waterproofing a tiled terrace is difficult because of its extra smooth and glazed finish. Adhesion of any waterproofing coat to such smooth surface is difficult hence a primer coat is required to facilitate a better adhesion. Damp Proof coating to such tiled surface can be done by applying a single coat of Terrace Tile Primer directly to the tiled surface. This can then be coated with Damp Proof as per standard application procedure.



TERRACE TILE PRIMER



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



Superior Adhesion

Good adhesion to all types of glazed tiles and china chips.



Easy To Apply

Doesn't require any dilution, can be brushed and rolled directly

**Product Features
& Benefits**

NO ROOM FOR INTERIOR DAMPNESS

Interior dampness

The beauty of your house depends upon how ageless its walls look. But dampness plays a silent demon and takes away from the elegance of a properly constructed and beautifully painted wall. It may cause damage and reduce the overall life of the walls, thus weakening the integrity of the structure altogether.

What causes it?

Dampness is caused by leakage from washrooms, gaps in tiles, improper slop, damp exterior walls and water collected on the floor in areas where water table is high.

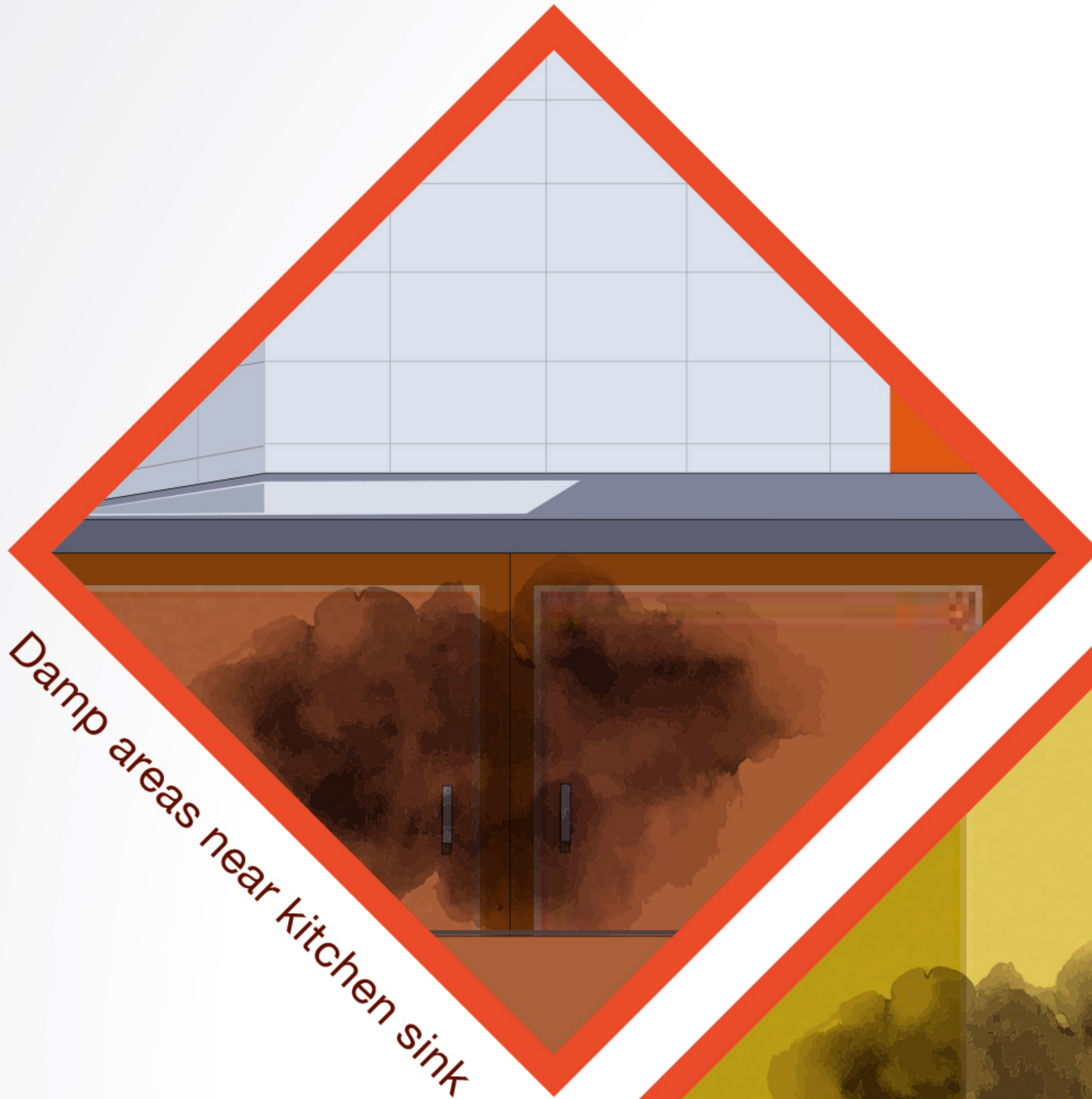
Why treat it?

Dampness can affect the beauty of your walls and can further breed bacteria to cause various health problems during the rainy season. It can also cause damage to the structure by weakening it.

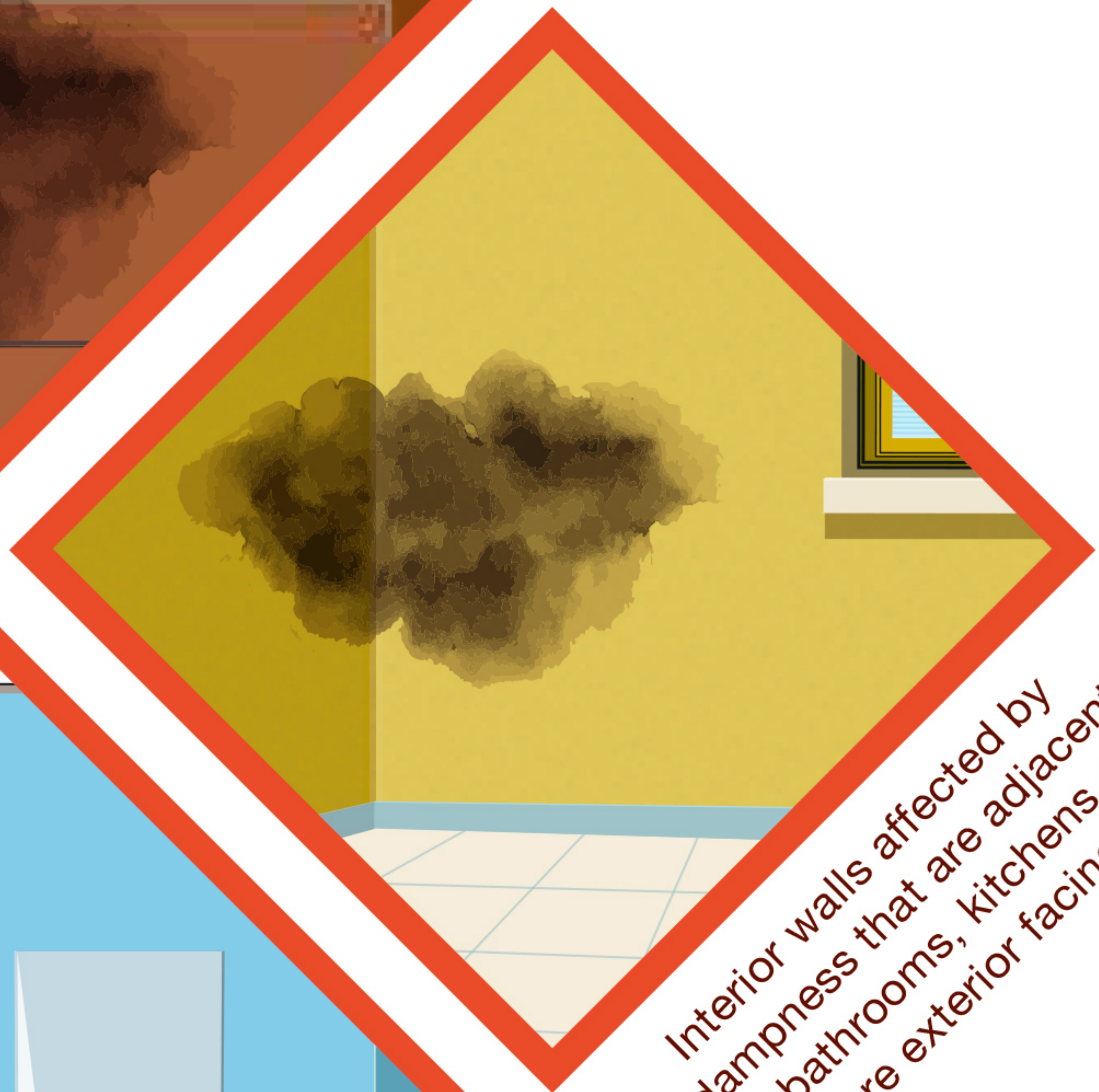


INTERIOR DAMPNNESS

AFFECTED AREAS OR AREAS TO BE TREATED



Damp areas near kitchen sink



Interior walls affected by dampness that are adjacent to bathrooms, kitchens or are exterior facing



Dampness on walls adjacent to bathrooms

DAMP BLOCK



Asian Paints SmartCare Damp Block is a flexible polymer modified cement based anti-dampness coating for interiors. It is a single pack white coloured powder that is easy-to-apply and offers lasting protection from dampness.



Waterproofing:
Resists 4 bars of hydrostatic pressure from the negative side.

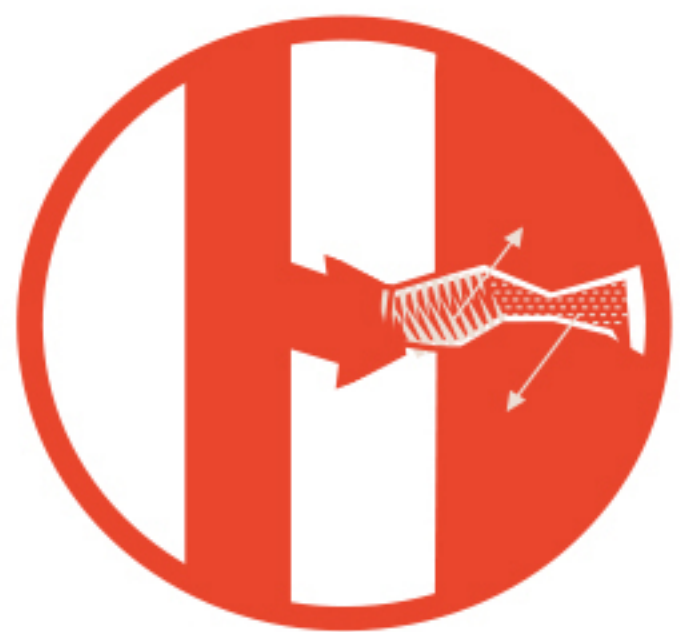


Nanotechnology:
Nano sized particles enter smallest of pores and crevices to block water from coming out.



Crystalline Technology:
Reacts with water and forms crystals to effectively block water.

Product Features & Benefits



Adhesion:
High tensile and excellent bond strength with cementitious substrates.



Ease of Use:
Single pack and easy-to-apply.



Ease of Use:
Single pack, easy-to-apply and simple recoating for maintenance.

NO ROOM FOR WEAK STRUCTURES

Weak Structures

Your home stands on structures that are put together with cement-concrete, mortar and plaster. If water is allowed to seep through them, it will cause dampness, corrosion and further weaken its compressive strength. Thus, lower the water permeability; more is the strength of your structure.

What causes them?

During construction, masons tend to increase the ratio of water to the cement they're applying in order to get a good workability of the mix. This leads to reduced strength of the structure and causes shrinkage cracks in the structure when the cement dries out. Water seeps in through these cracks and further causes corrosion of the reinforcement bars.

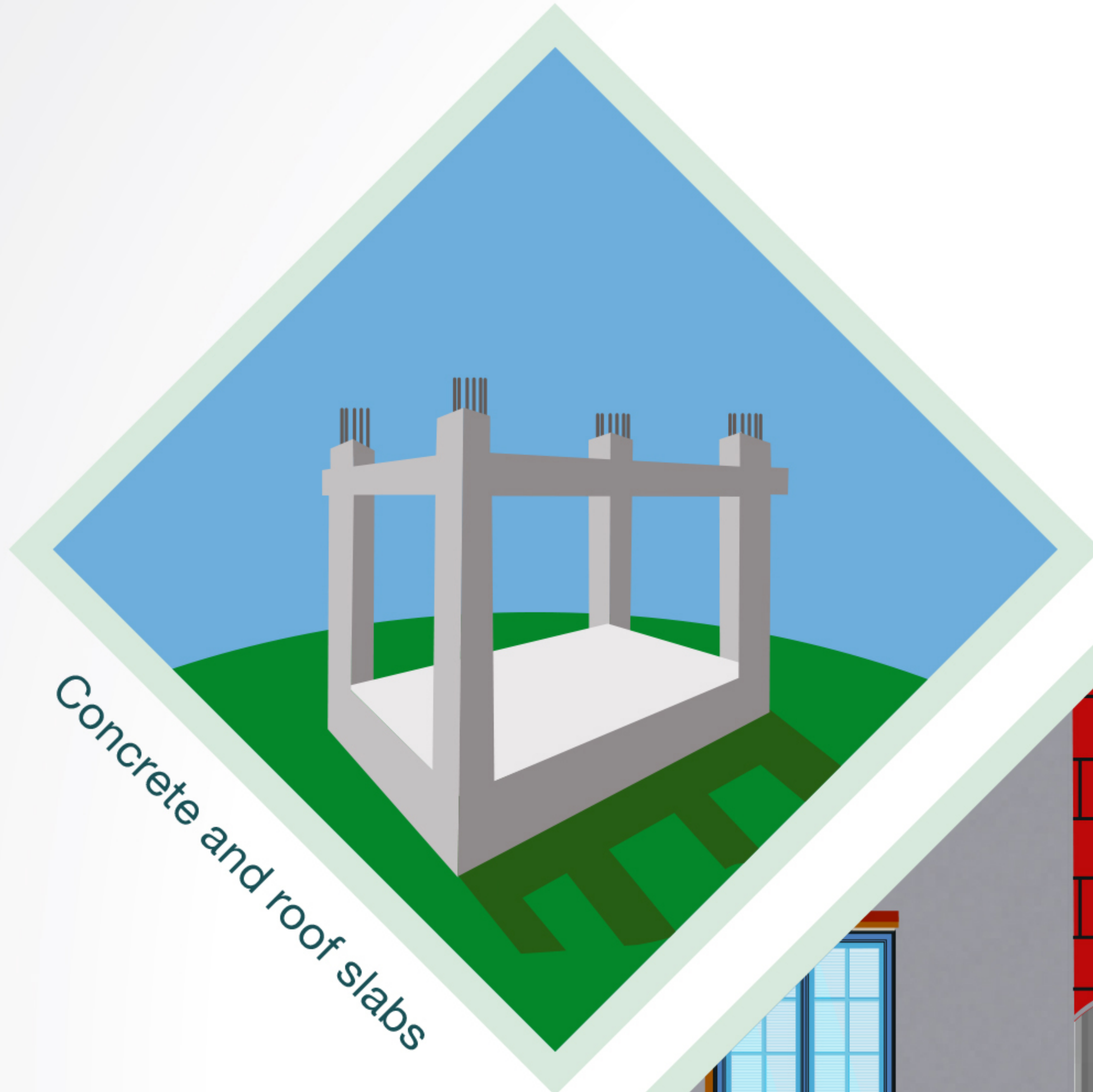
Why treat them?

Structures with crack formation due to drying and shrinkage weaken very quickly and don't stand the test of time. The strength of these structures is less as seepage makes its way through the cracks.



WEAK STRUCTURES

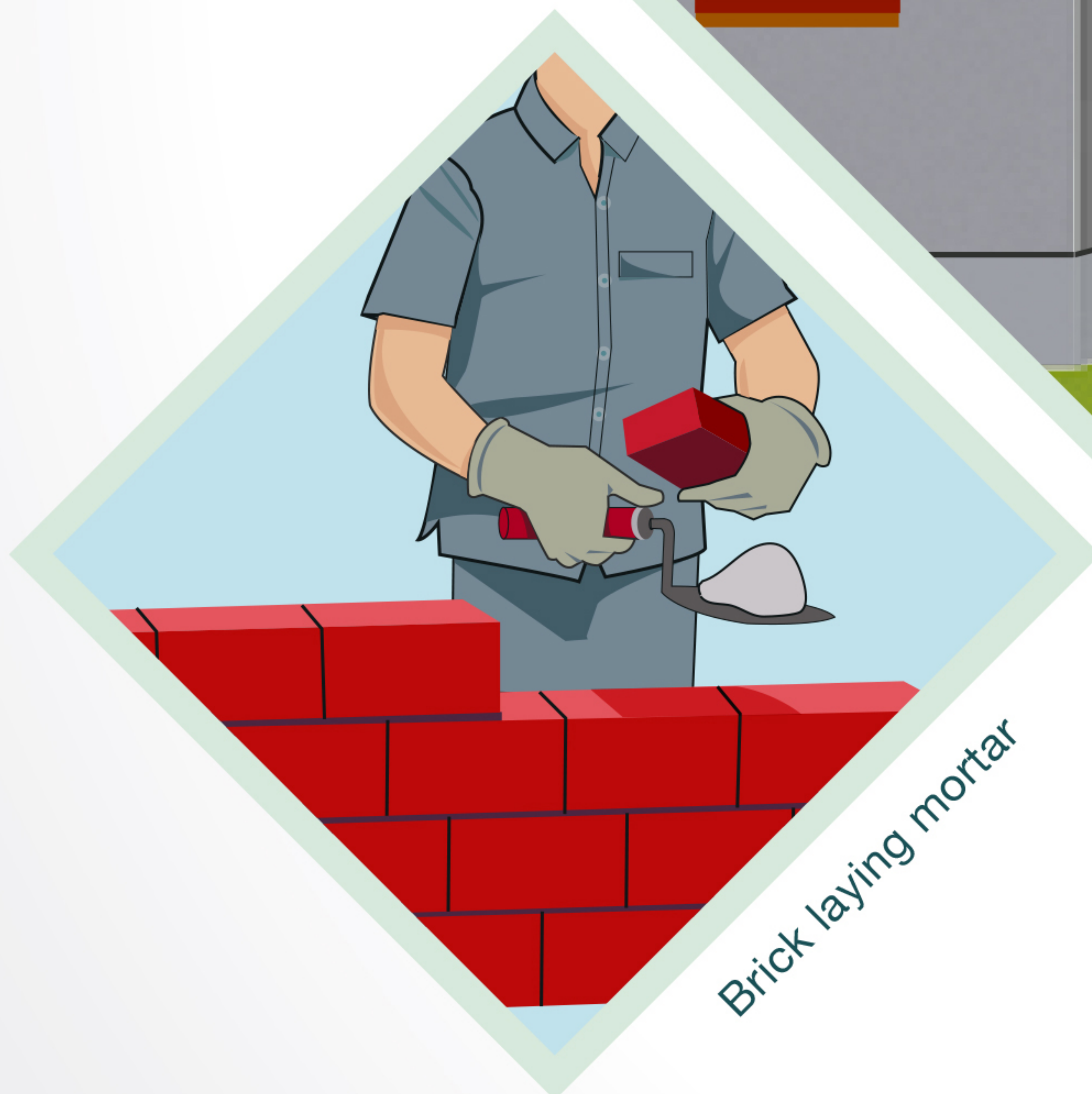
AFFECTED AREAS OR AREAS TO BE TREATED



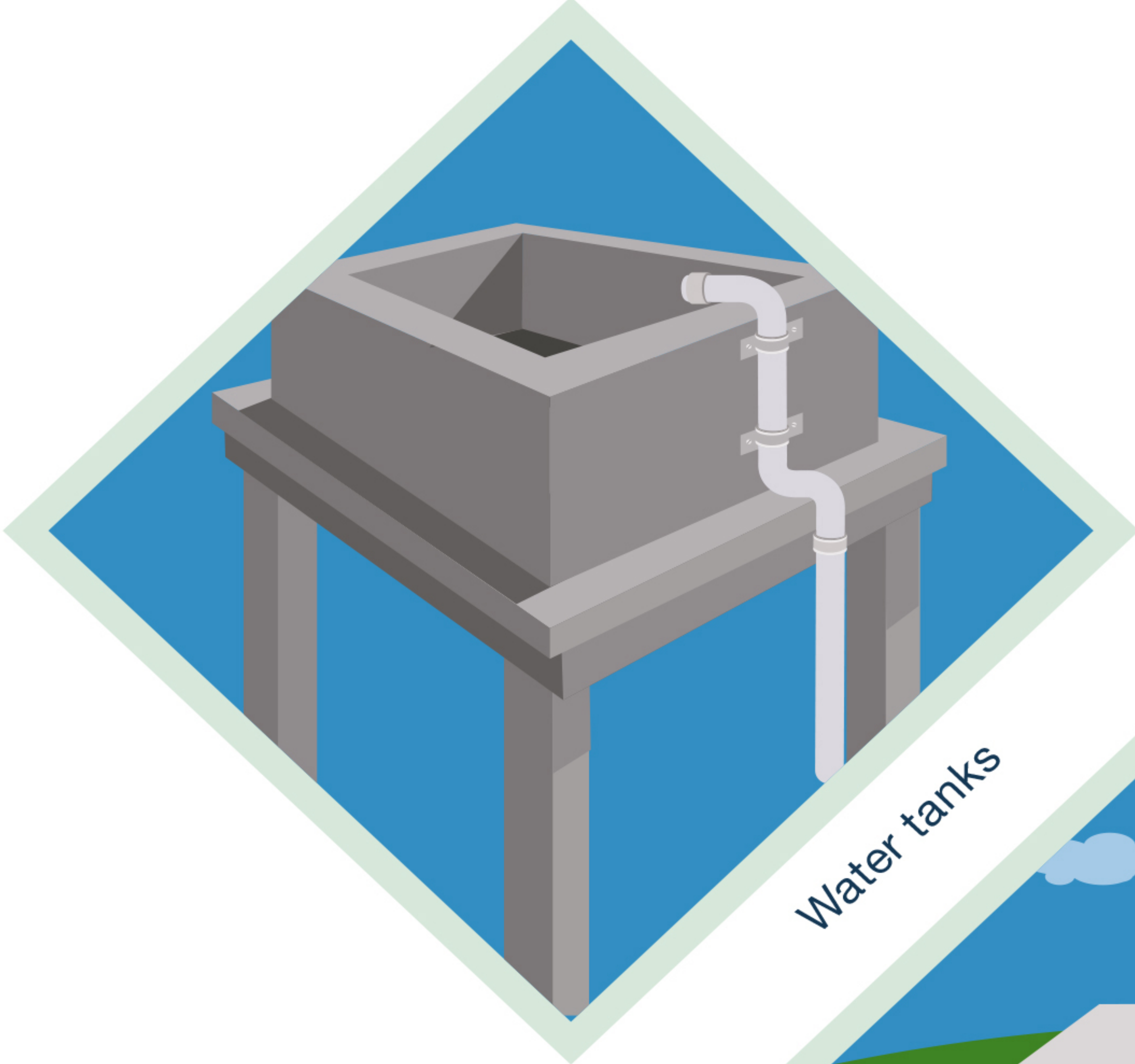
Concrete and roof slabs



Interior and exterior plaster



Brick laying mortar

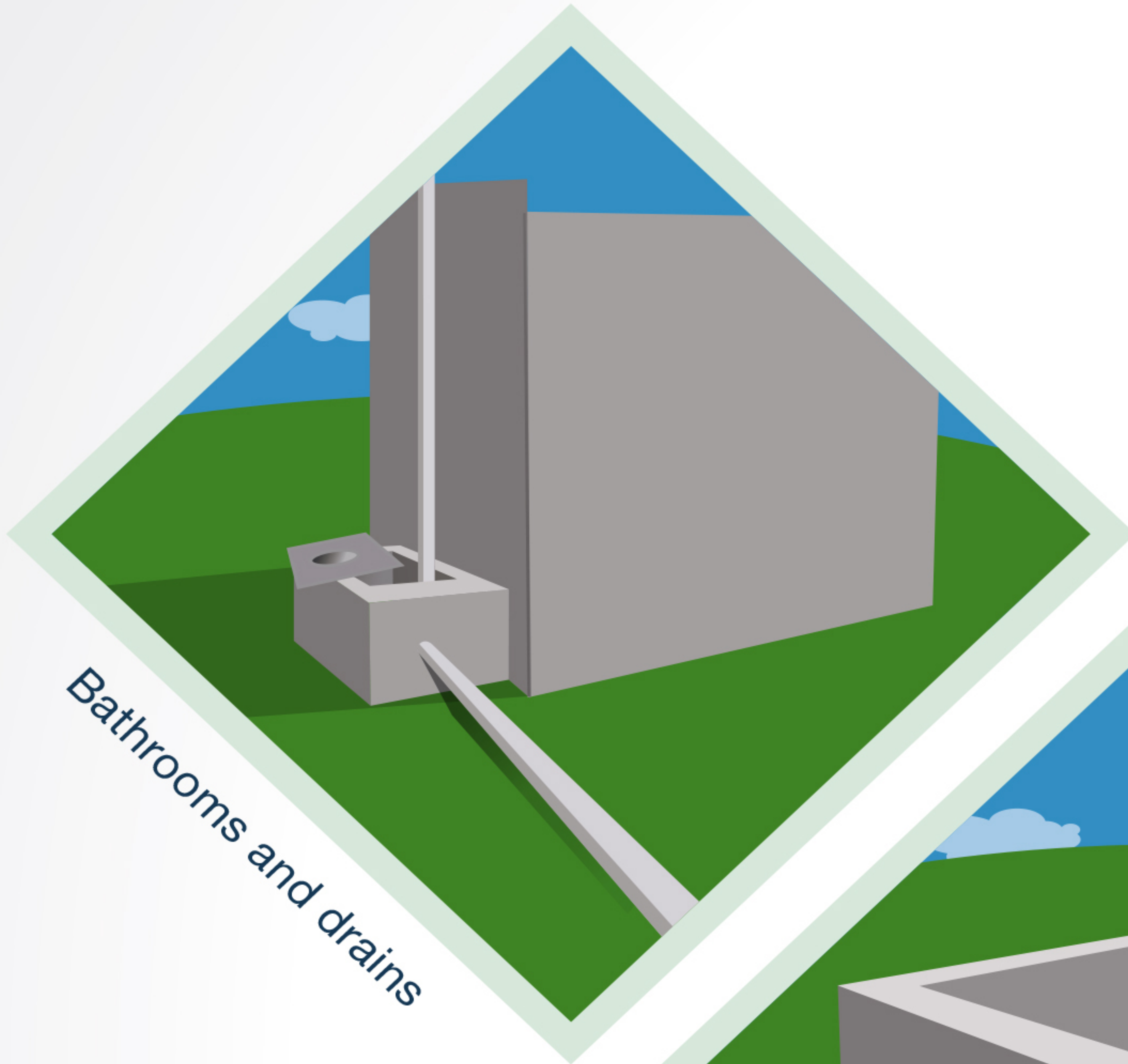


Water tanks

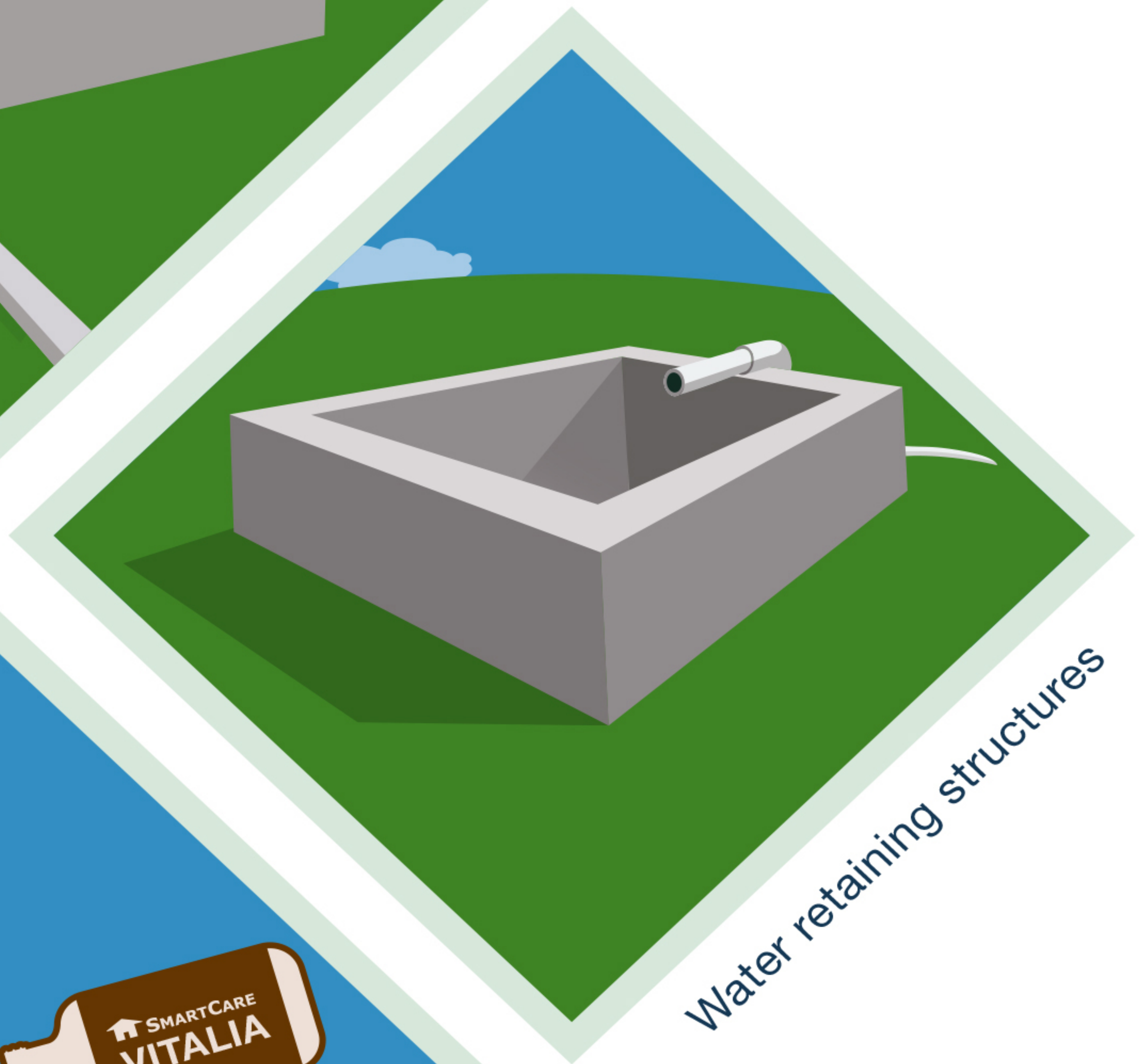


Basements

AFFECTED AREAS OR AREAS TO BE TREATED



Bathrooms and drains



Water retaining structures



Can be added with exterior putty to improve the life of paint

VITALIA



Asian Paints SmartCare Vitalia is an integral waterproofing liquid with advanced formulation and superior plasticising additives for cement-concrete, mortar and plaster.

Product Features & Benefits



Waterproofing:
Imparts waterproofing to concrete and cement-sand plaster.



Standard Compliance:
Exceeds requirement of IS 9103 for water reduction and IS 2645 for water impermeability.



Superior Compressive Strength:
Ensures longer lasting walls.



Enhances the life of paint when added to exterior putty.

NO ROOM FOR TILING PROBLEMS

Tiling Problems

Laying of tiles using the right method is as important as the quality of tiles used. If not done correctly, it leads to problems like cracking, hollow sounds and dampness issues due to water ingress through tile joints.

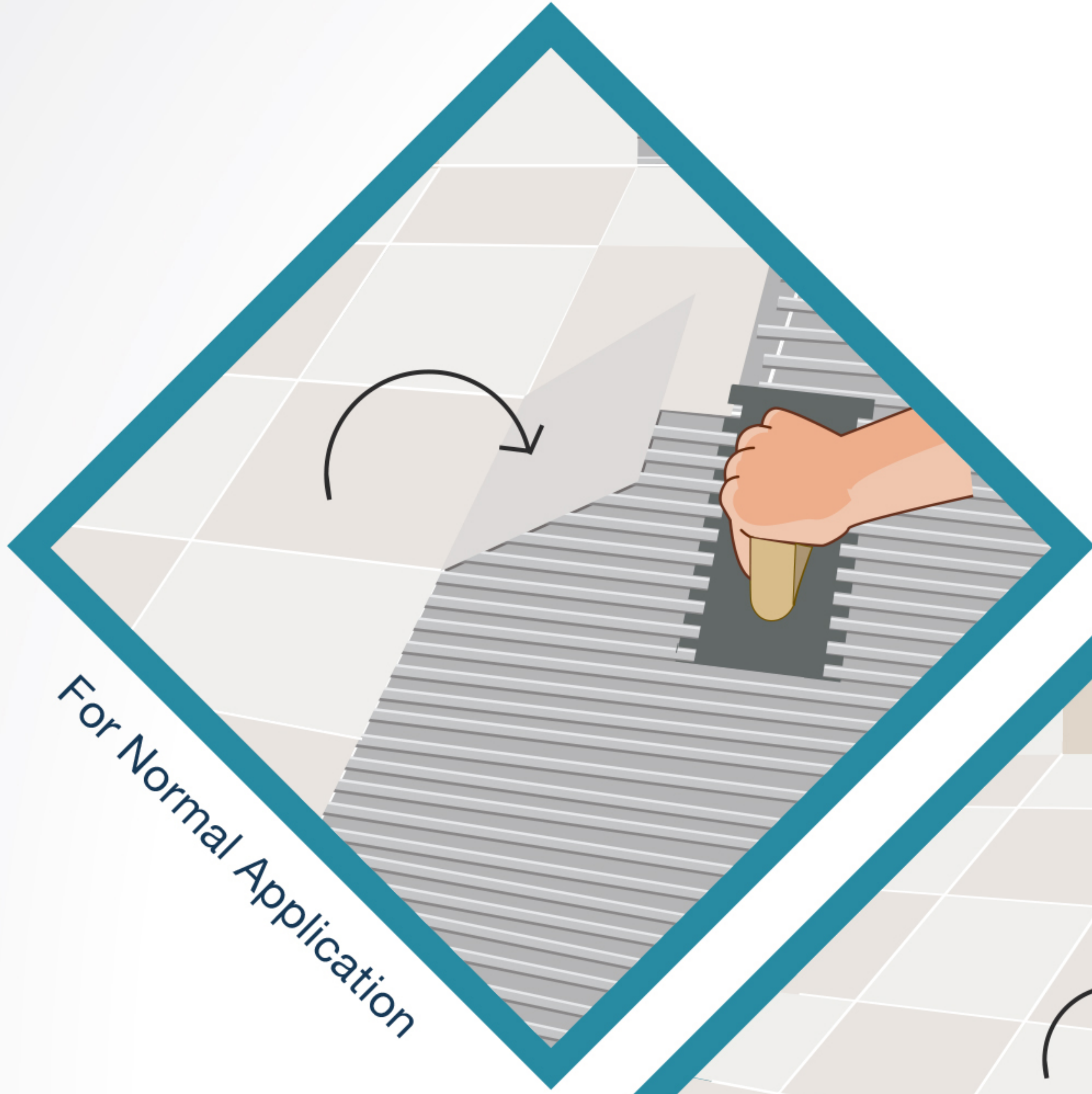
What causes them?

Generally applicators use grey cement to fix tiles and white cement for filling joints. These dry very quickly leading to improper application, poor adhesion and eventually tile cracking. White cement corrodes away with time, offering no waterproofing or aesthetic value.

Why treat them?

Improper tile fixing and grouting not only gives a shabby look but also reduces the life of tiles, weakening the house structure. Thus, using a proper Tile Adhesive and Tile Grout is very important.





SmartCare Tile Adhesives

TILE ADHESIVE FOR NORMAL APPLICATION



SmartCare Tile Adhesive for Normal Application is a single component cement based polymer modified adhesive for fixing tiles on floors as well as walls in interior & exterior areas. Meets IS 15477 Standard.

TILE ADHESIVE FOR TILE-ON-TILE APPLICATION



SmartCare Tile Adhesive for Tile-on-Tile Application is a single component cement based polymer modified adhesive for fixing tiles over existing tiles on floors as well as walls in interior & exterior areas. Meets IS 15477 Standard.

GLASS TILE ADHESIVE

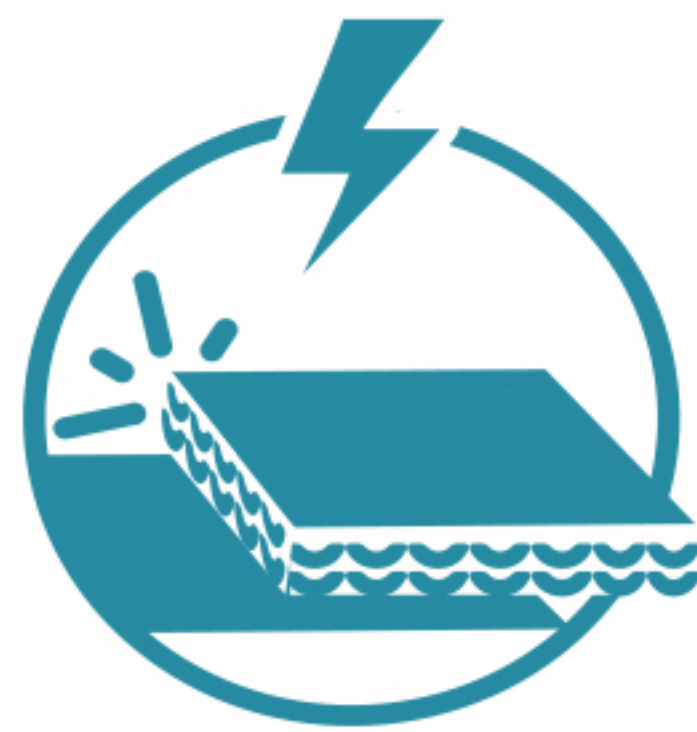


SmartCare Glass Tile Adhesive is a single component polymer modified white cement based adhesive for fixing decorative glass tiles on walls, floors, swimming pools etc in interior & exterior areas. Meets IS 15477 Standard.

Product Features & Benefits



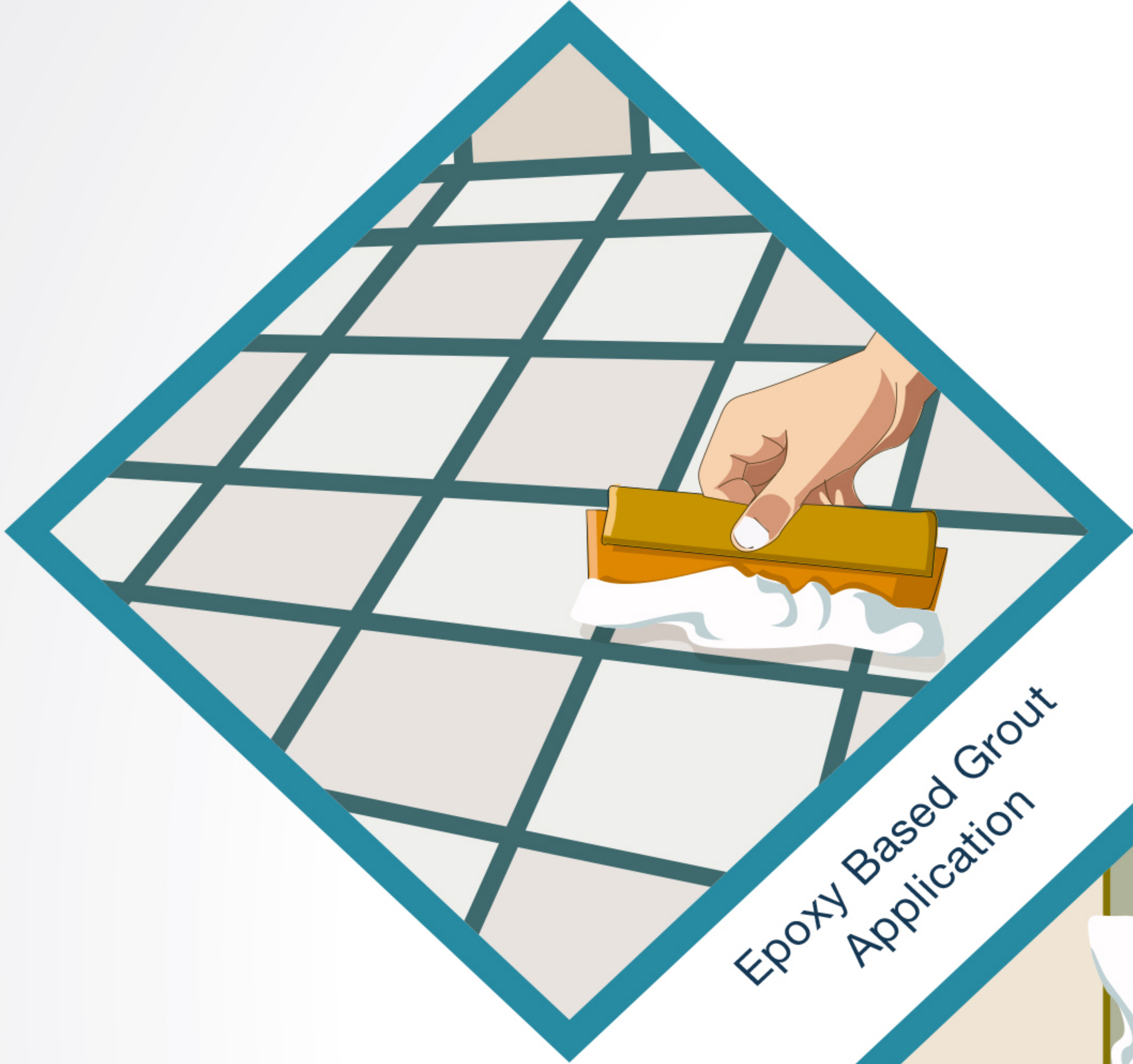
Optimal Setting Time



Quick Curing



Superior Durability



Epoxy Based Grout Application



Cement Based Grout Application

SmartCare Tile Grout

TILE GROUT EPOXY BASED



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

Product Features & Benefits



Water Resistant



Chemical Attack Resistant



Available in 26 shades

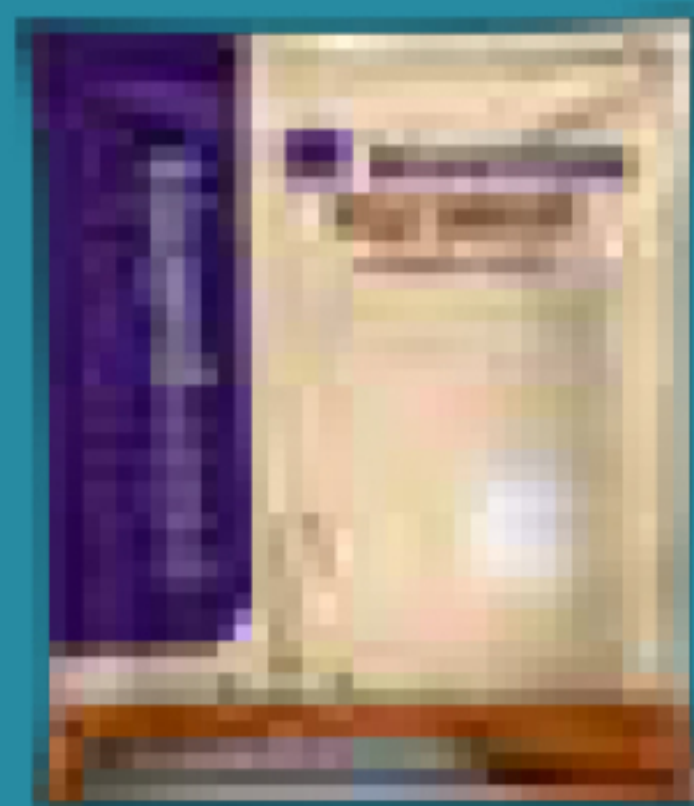


Faster Setting Time



Gaps up to 10mm

TILE GROUT CEMENT BASED



SmartCare Tile Grout - Cement Based is a single component cement based polymer modified tile grout for filling tile joints up to 5mm width. It is a specially formulated premium, fast setting, low shrinkage grout and prevents ingress of water through the joint.

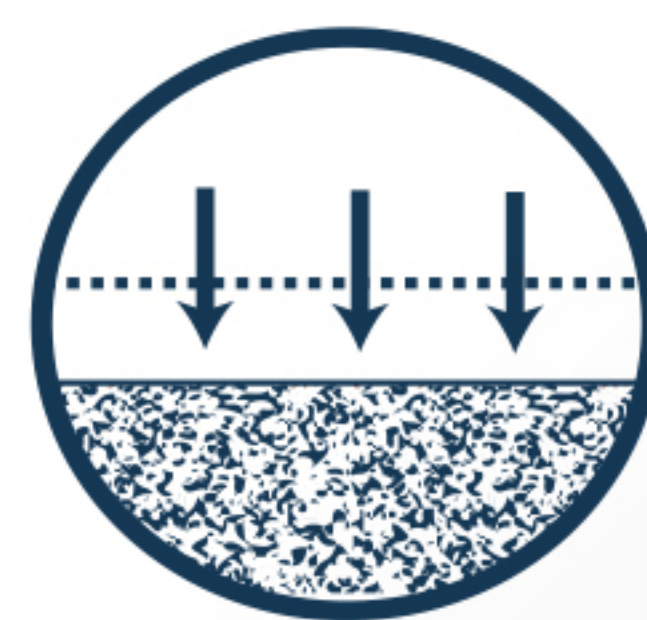
Product Features & Benefits



Water Resistant



Household Cleaner Resistant



Superior Adhesion



Faster Setting Time



Gaps up to 5mm

NO ROOM FOR GAPS

Gaps

In building construction, the place where two surfaces meet is called a joint. These surfaces can be of the same material e.g. joints between two glass panes or different materials e.g. joints between walls and doorframes. When a space is left between these two surfaces, it is called a gap.

What causes them?

In construction, spaces need to be created to fit window frames, bathroom fittings, doors etc. If the space created is greater than the actual size of the fitting, it results in gaps. At times to ensure healthy construction, gaps are left intentionally. Unlike cracks, gaps are not a deformation, but if not treated with an appropriate sealant, they may eventually cause waterproofing problems.

Why treat them?

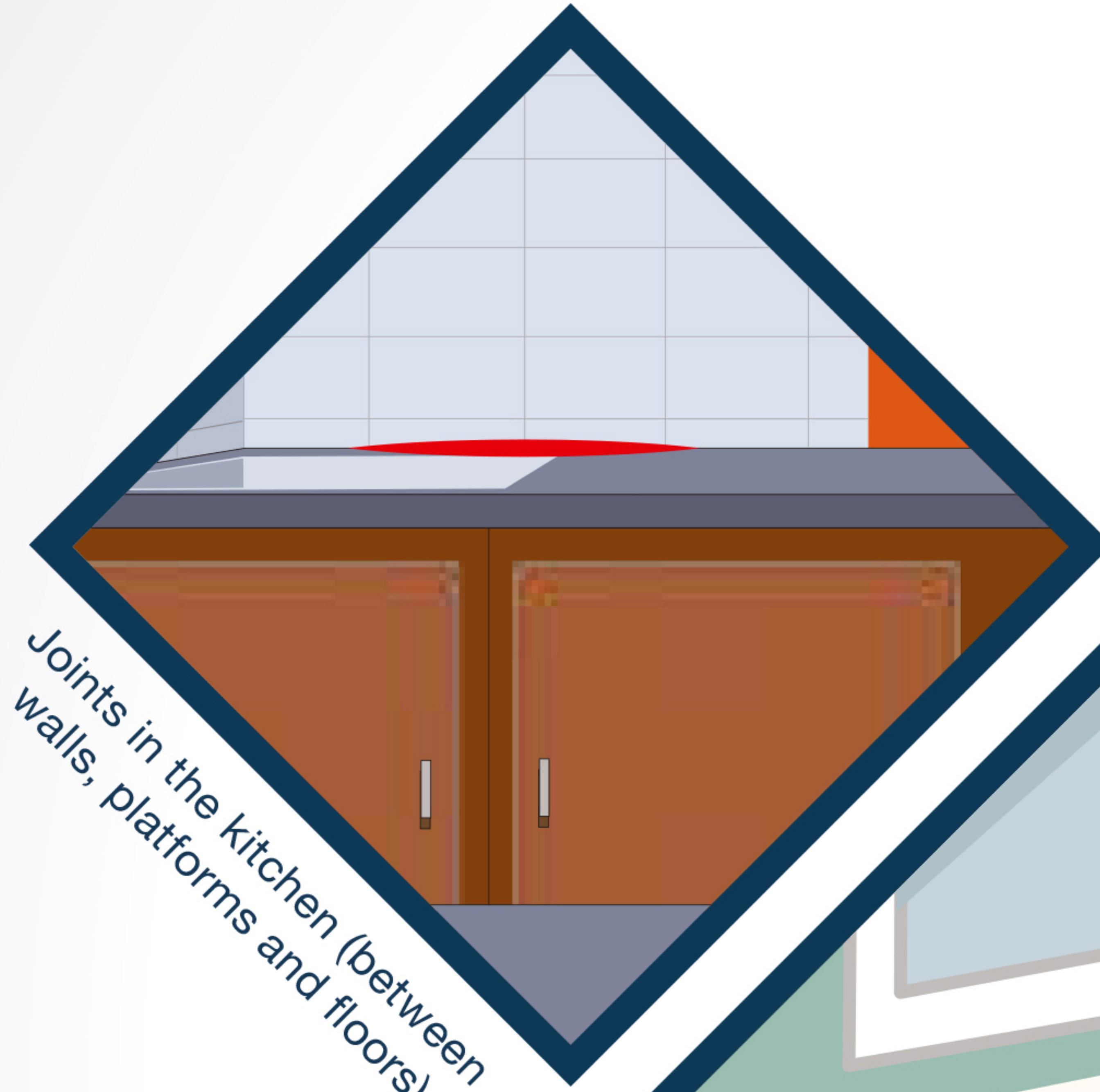
If the gaps are not filled/sealed, they will allow water to pass through and cause waterproofing issues. If these gaps are filled with cement putty/POP, they'll end up restricting the movement of the joint as well as hamper the décor due to their tendency to crack. A sealant on the other hand will hermetically seal the joint and not allows air or water to pass through. It will also accommodate the differential expansion and contraction.



Decorative flourish or signature



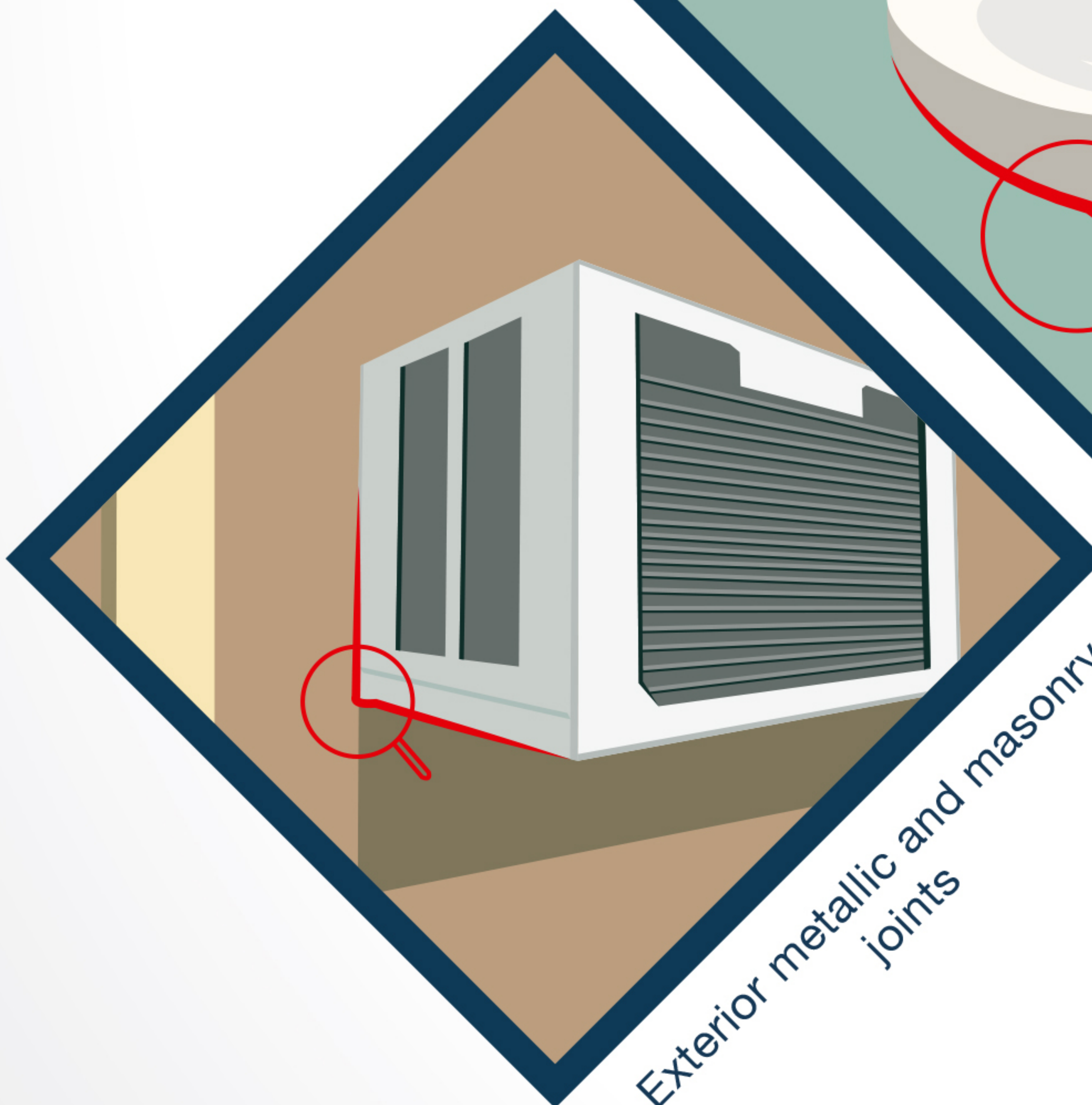
AFFECTED AREAS OR AREAS TO BE TREATED



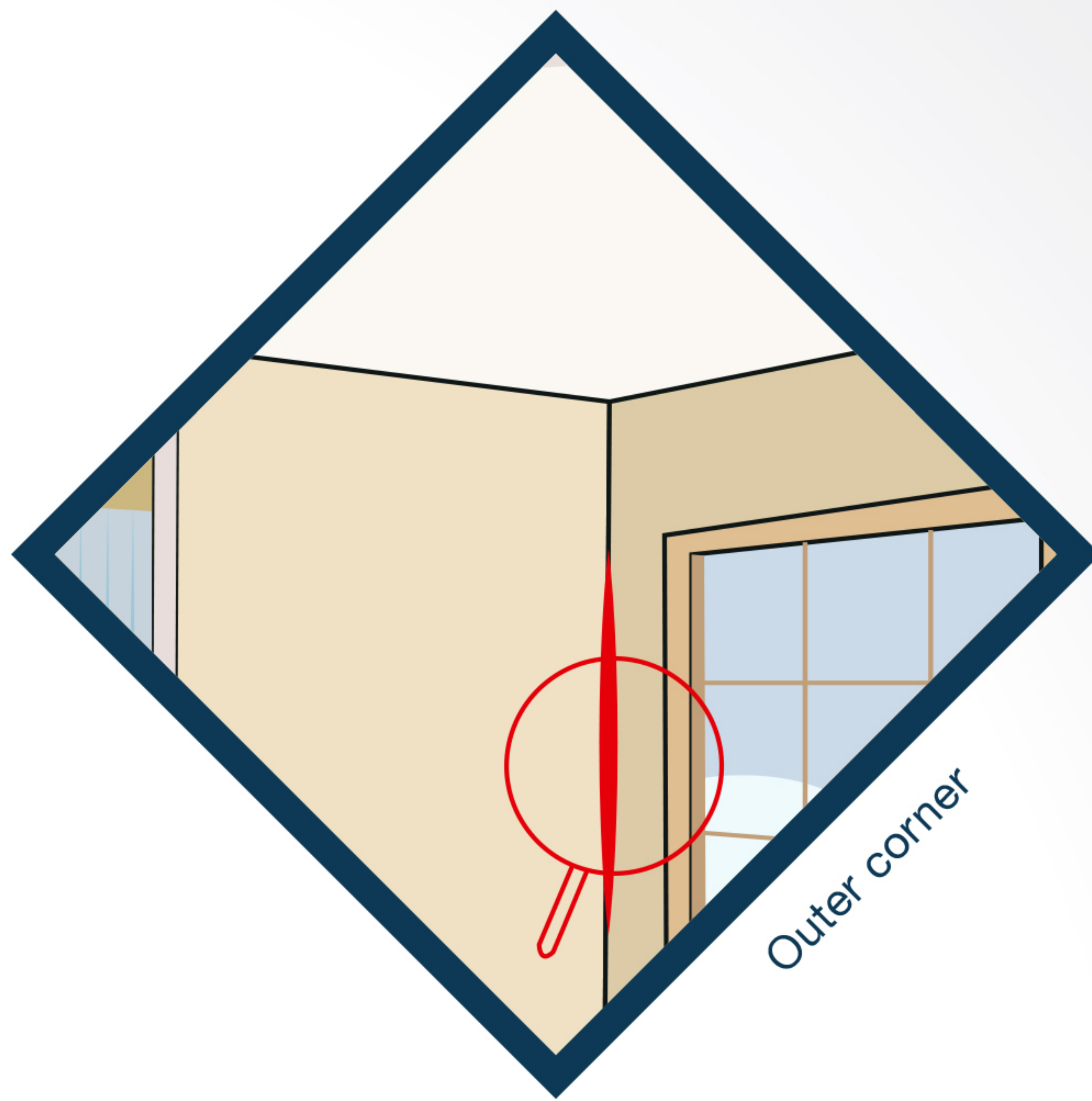
Joints in the kitchen (between walls, platforms and floors)



Sanitary and metallic joints



Exterior metallic and masonry joints



UNYVERSEAL



Asian Paints SmartCare UnyverSeal is a durable and odorless neutral silicone sealant for sealing of building, glass and sanitary joints.

Product Features & Benefits



Neutral Cured:
Applicable on all alkaline surfaces and metallic surfaces.



Flexibility:
Can withstand joint movement of 25%.



Anti-Fungal:
ISO 846 certified fungus protection.

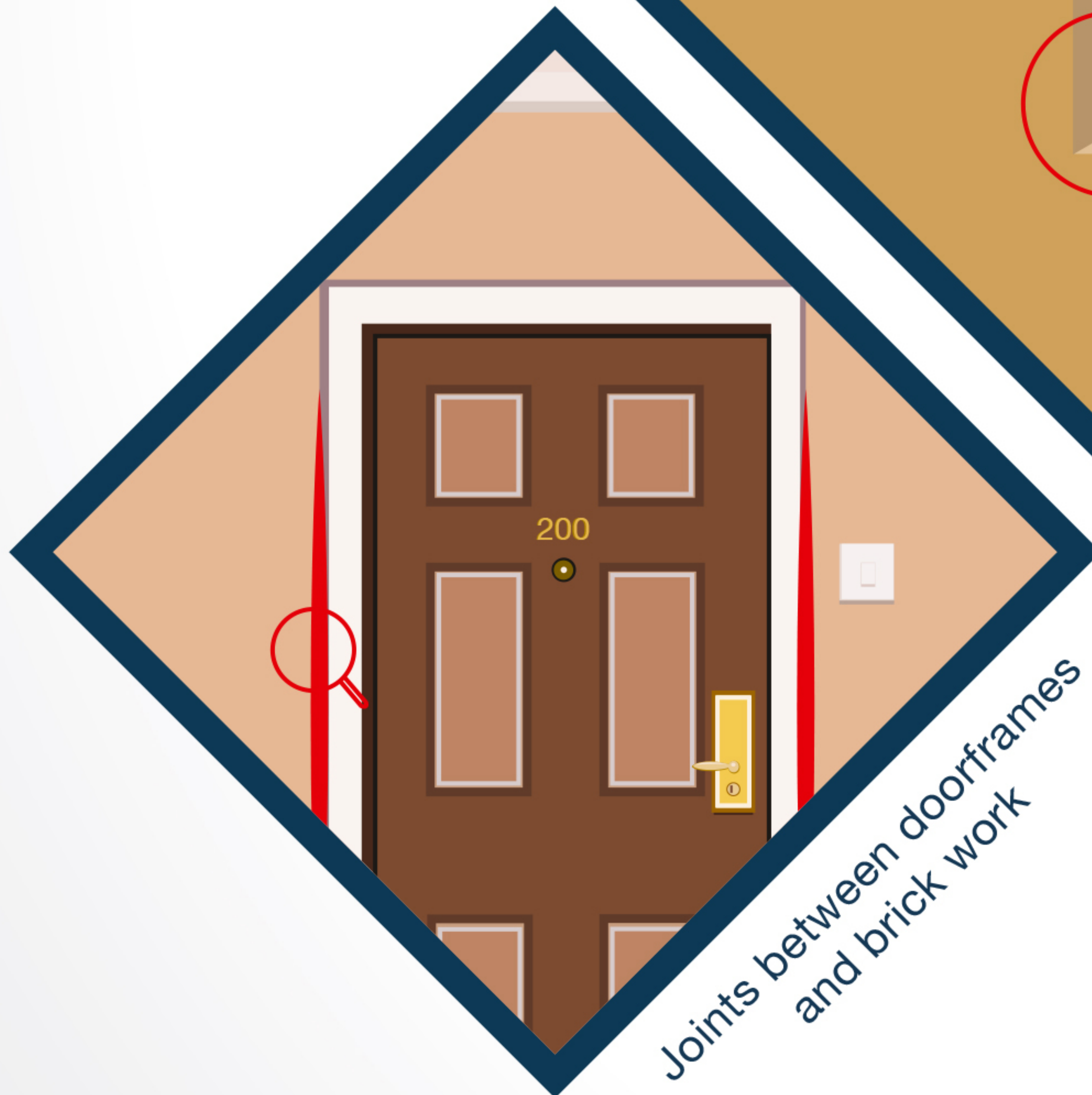
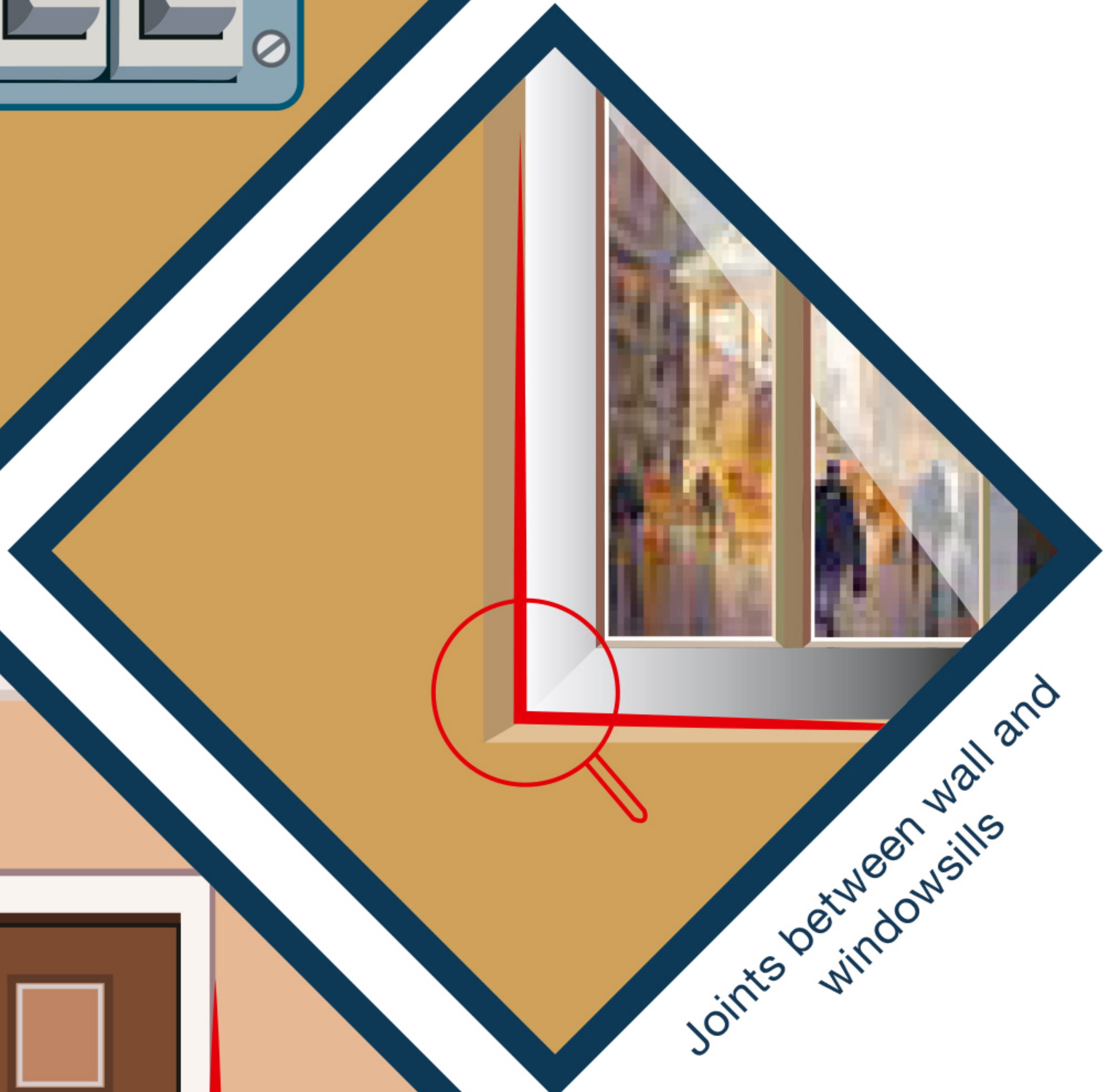
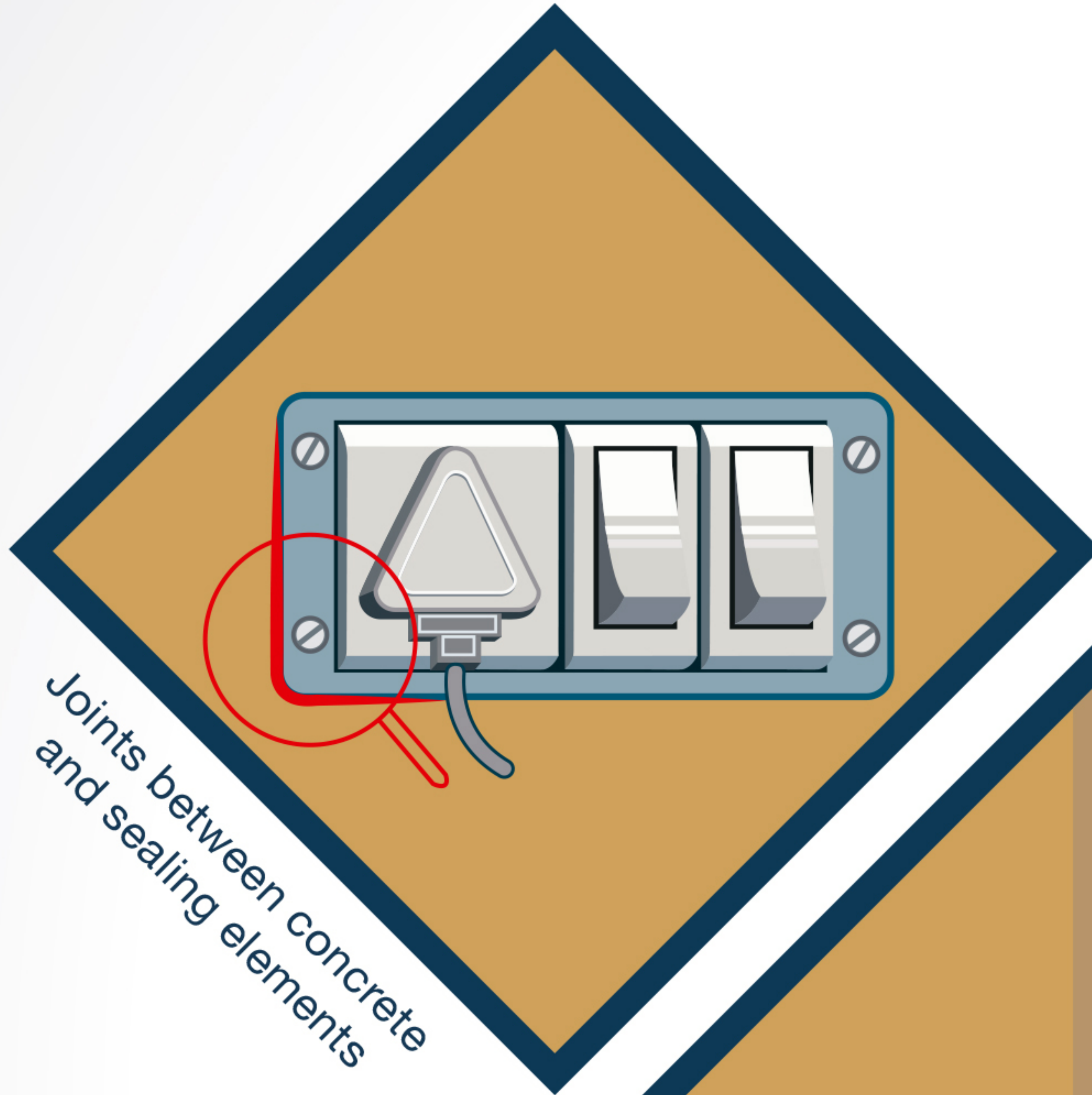


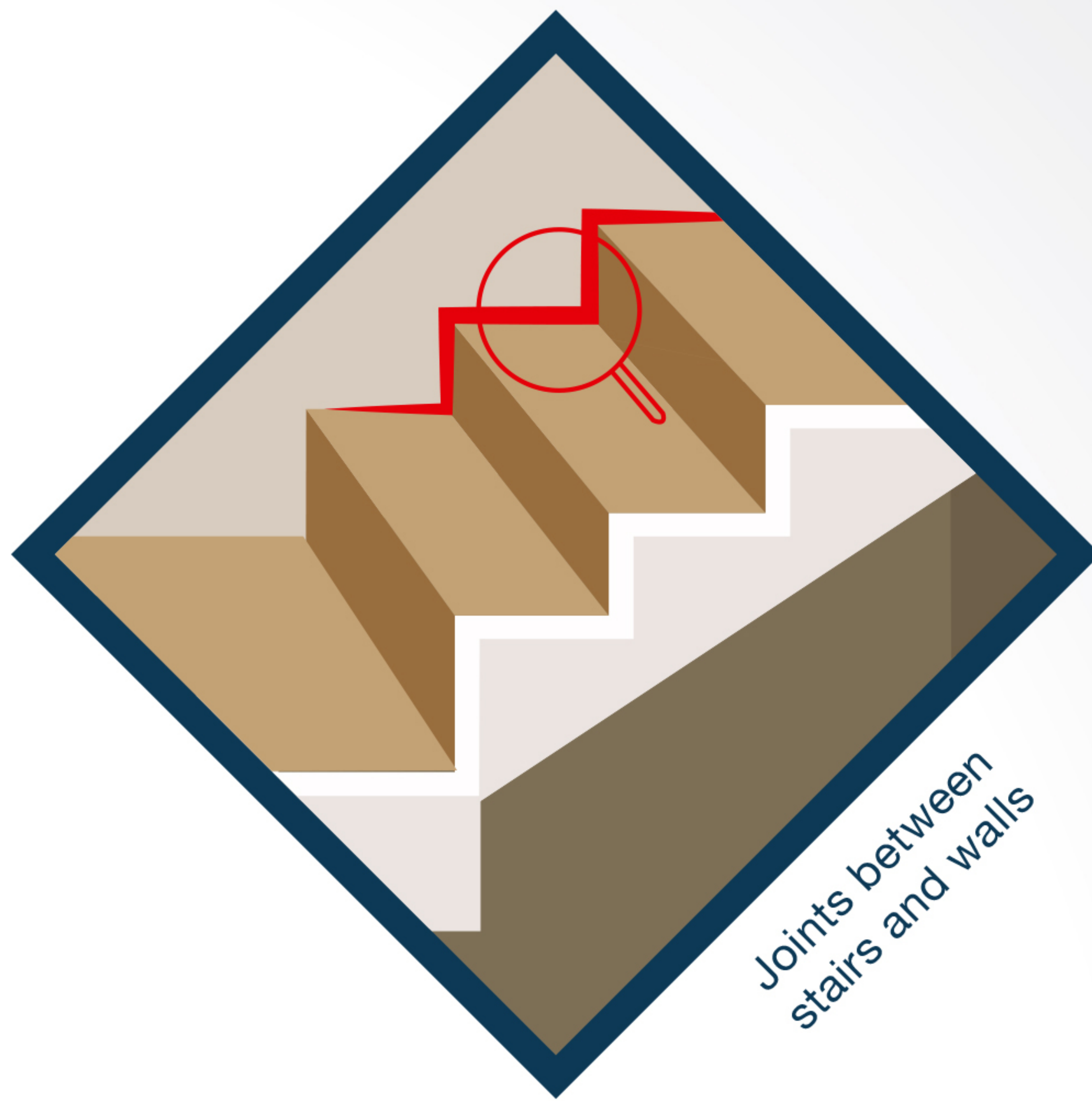
Gap filling:
Can be used for joints up to 25mm.



Waterproofing:
Effective waterproofing and protection.

AFFECTED AREAS OR AREAS TO BE TREATED





AKRYLMAX



Asian Paints SmartCare AkrylMax is an acrylic emulsion based plastic elastic sealant for sealing building joints that can be top coated with a water-based paint.

Product Features & Benefits



Multi-Surface:
Concrete, brickwork, skirting board, PVC, anodized aluminum, painted wood, etc.



Flexibility:
High elongation film that accommodates minor movements.



Durability:
Forms a highly durable seal that works from temperatures of -20 to +75°C.

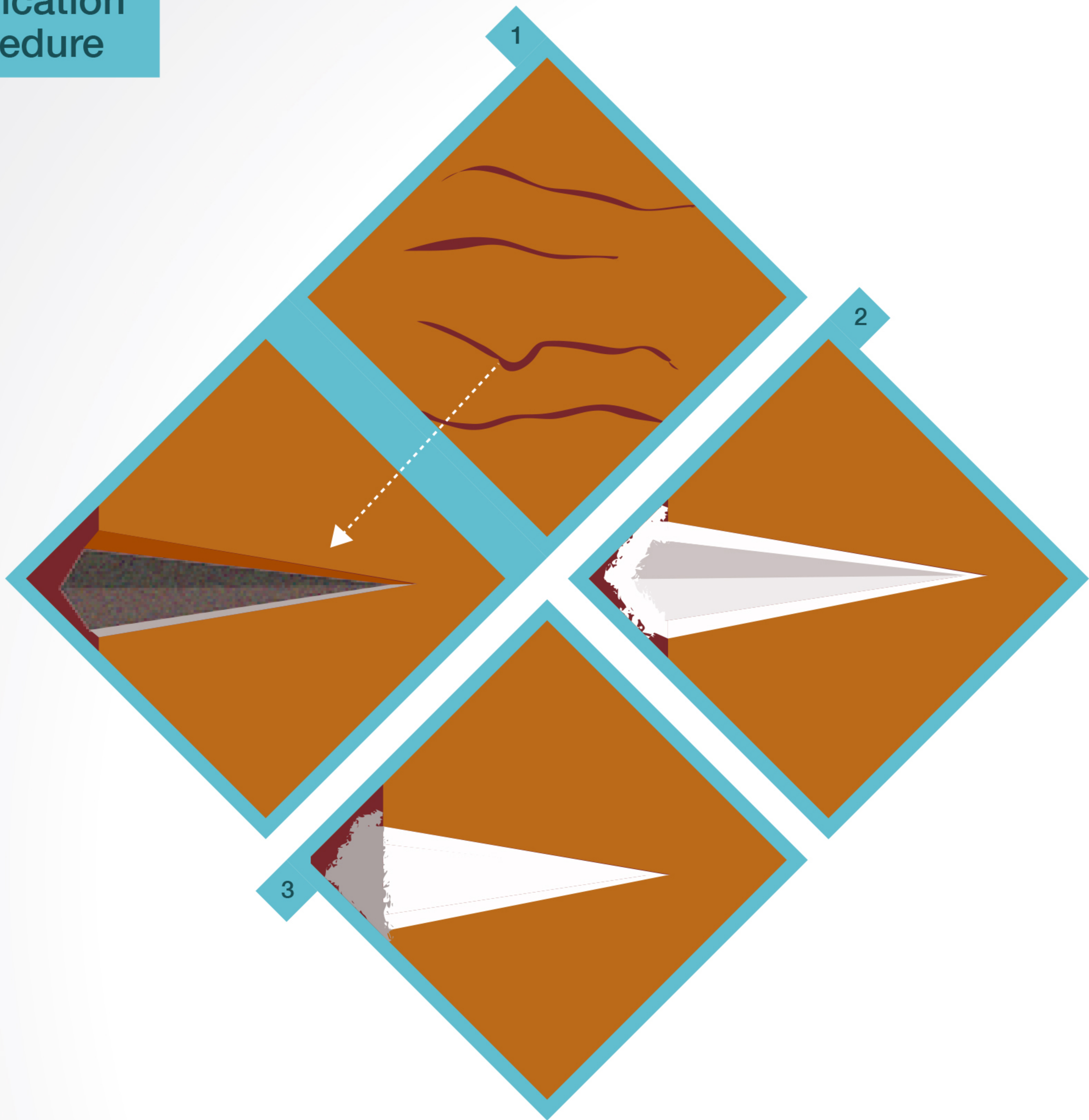


Gap filling:
Can be used for joints up to 20mm.



Waterproofing:
Water-resistant film stops water entry through joints.

Application Procedure



1

Cleaning

Open the cracks, widen them to form a 'V' shaped groove. Clean the area thoroughly so that it is free from loose dust particles.

2

Priming

Post cleaning, treat the opened crack using an Asian Paints primer.

3

Apply the first coat of SmartCare Crack Seal on the crack using a spatula or putty knife. Press the paste firmly into the crack and level it with the surface.

4

Allow it to set for 6-8 hours before applying the 2nd coat of **SmartCare Crack Seal**.

5

Further finishing like POP or putty can be taken up once the coat is fully dry.

Crack Seal Advantages



SMARTCARE
CRACK SEAL

VS



POPULAR
COMPETITOR

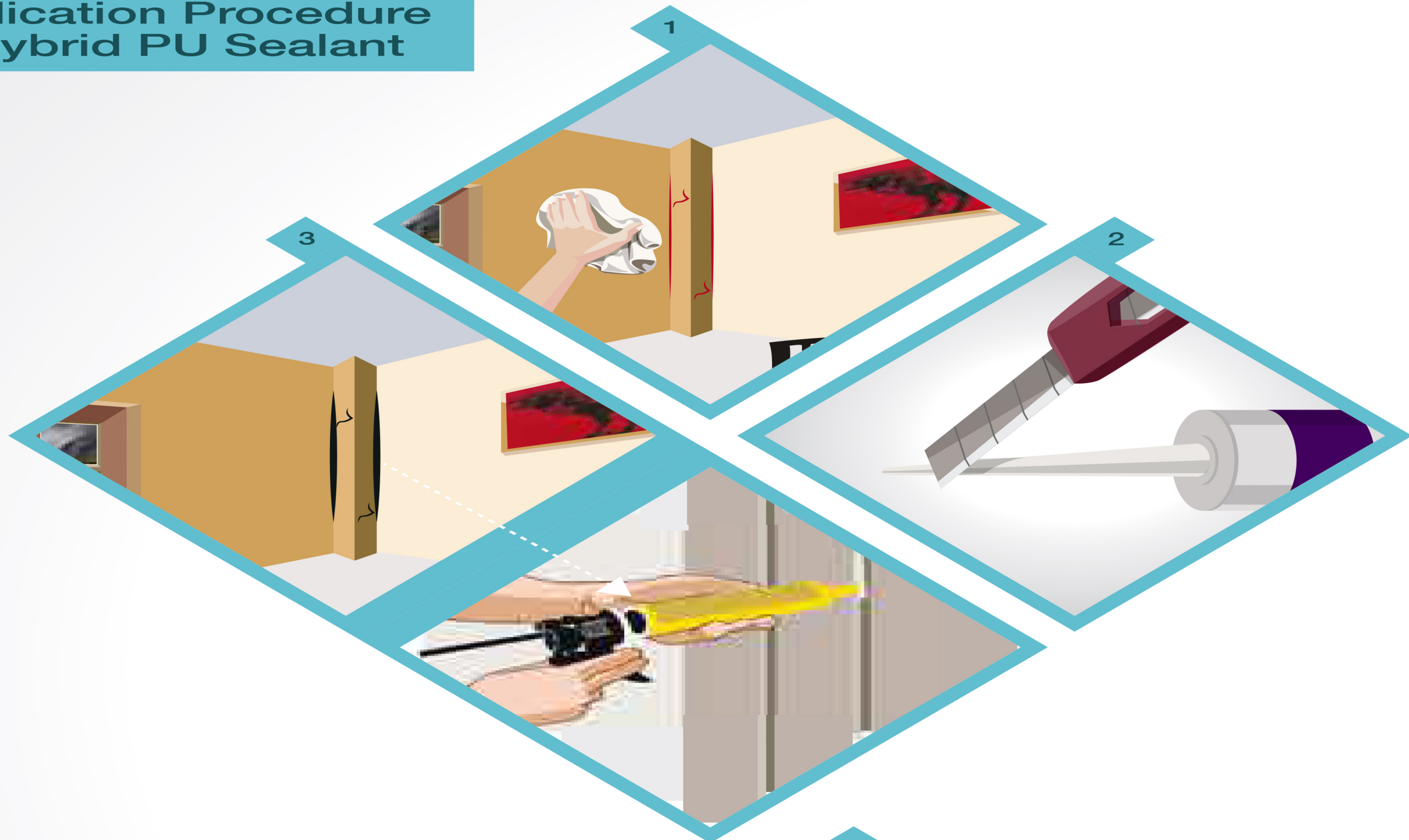
&



STANDARD
PUTTY

	<p>Reinforced with glass fiber. Strong mechanical and waterproofing properties</p>	<p>No fiber. Does not have similar mechanical properties</p>	<p>No fiber. Just a temporary solution</p>
	<p>Polymer modified. Can accommodate minor movements and temperature variations and hence flexible</p>	<p>Similar properties, however less than Crack Seal</p>	<p>No flexibility. Very rigid and will crack in a few months</p>
	<p>Can bridge up to 3mm cracks</p>	<p>Similar properties, however less than Crack Seal</p>	<p>Not a crack filling product</p>
	<p>High solid content. Low shrinkage</p>	<p>More shrinkage in comparison to Crack Seal</p>	<p>Putty does not possess this feature</p>
	<p>Less drying time of 6-8 hrs</p>	<p>Longer drying time of 24 hrs</p>	<p>Putty does not possess this feature</p>

Application Procedure for hybrid PU Sealant



1 Clean the surface by removing dust & loose particles.

2 Cut the sausage at one end & load in sausage applicator gun with nozzle at 45° angle, cut the nozzle as per joint width.

3 Fill Hybrid PU Sealant in joint; spread material at edges to ensure the adhesion of sealant at both edge of joint then leveled the sealant with spatula/putty knife.

4 Top surface should be tooled with concave shape by using soap water.

PRECAUTIONS AND LIMITATIONS

- 1** Use masking tape on both sides of joints to ensure uniform application.
- 2** Use bond breaker to ensure depth and non-adhesion at 3rd side.
- 3** Recommended for joints having maximum movement of 25%
- 4** Not recommended for glazing and not for aquariums, PE, PP, Teflon and bituminous surfaces.
- 5** Store in cool & dry place.

Hybrid PU Advantages

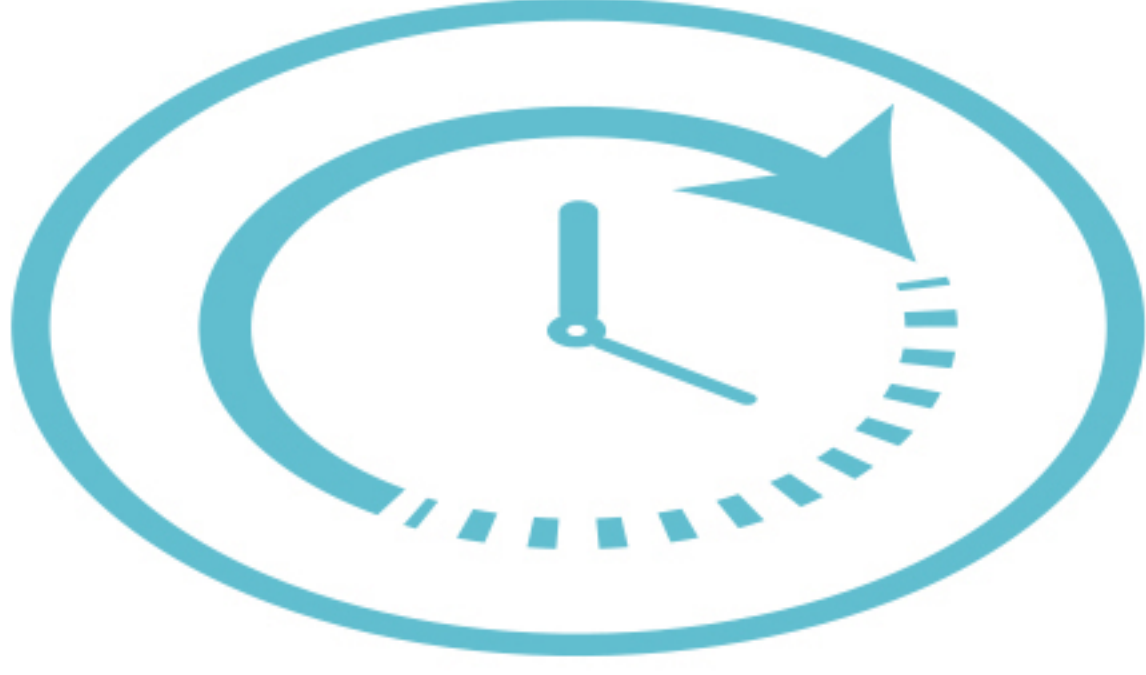





VS

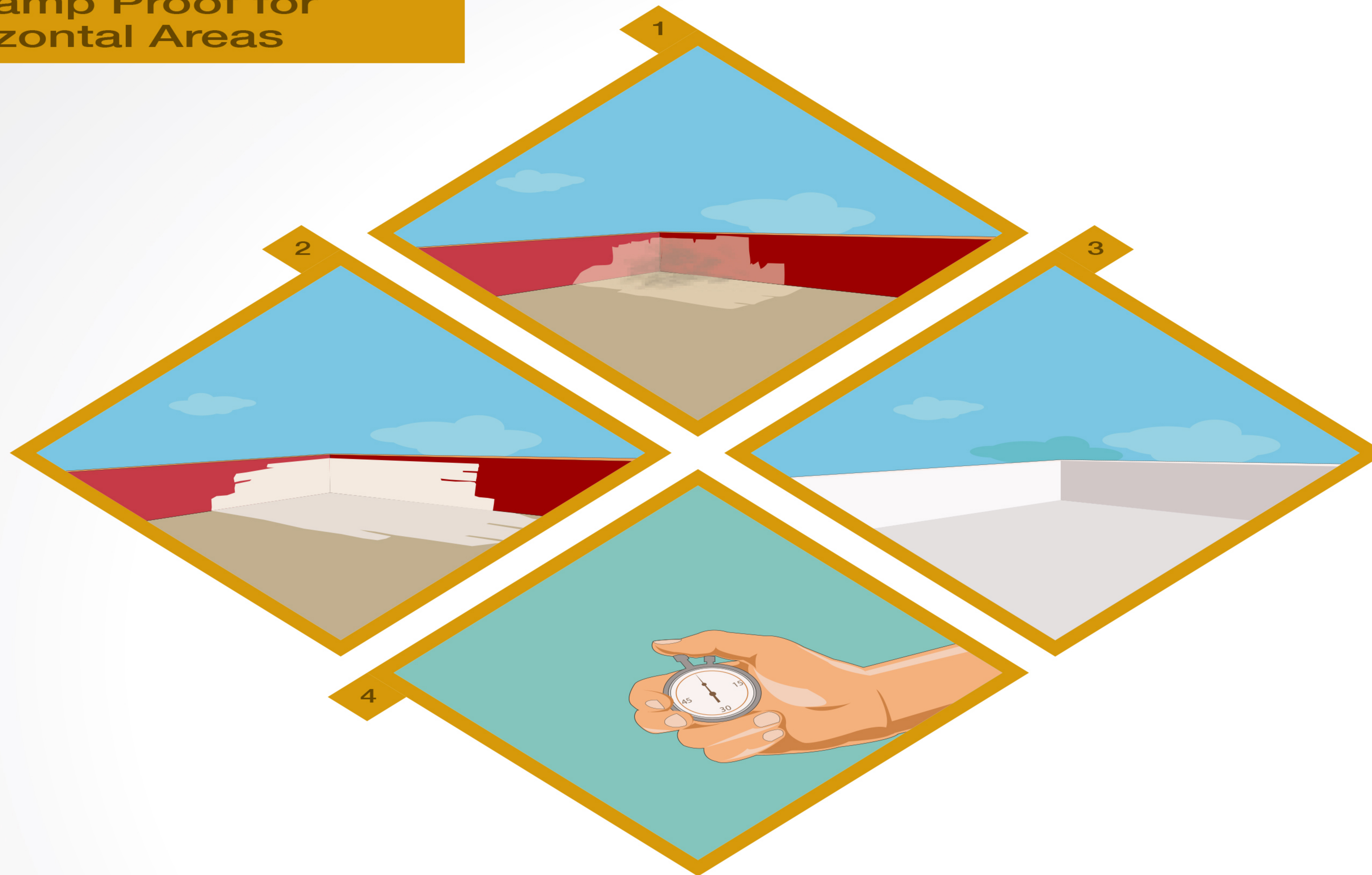


HYBRID PU SEALANT

STANDARD
POLYURETHANE

	No change with time	Hardness increases with time leading to low durability
	Odorless	Pungent odor
	Durability is extremely high	The durability is less as compared to that of Hybrid PU Sealant
	Environment friendly	Contains Isocyanine which tends to react with moisture in concrete to form gases

Application Procedure of Damp Proof for Horizontal Areas



1

Apply a self priming coat of **SmartCare Damp Proof** (diluted with water in 3:1 ratio).

2

Apply two perpendicular coats of **SmartCare Damp Proof** without dilution. Also cover the parapet walls to give an envelop coating.

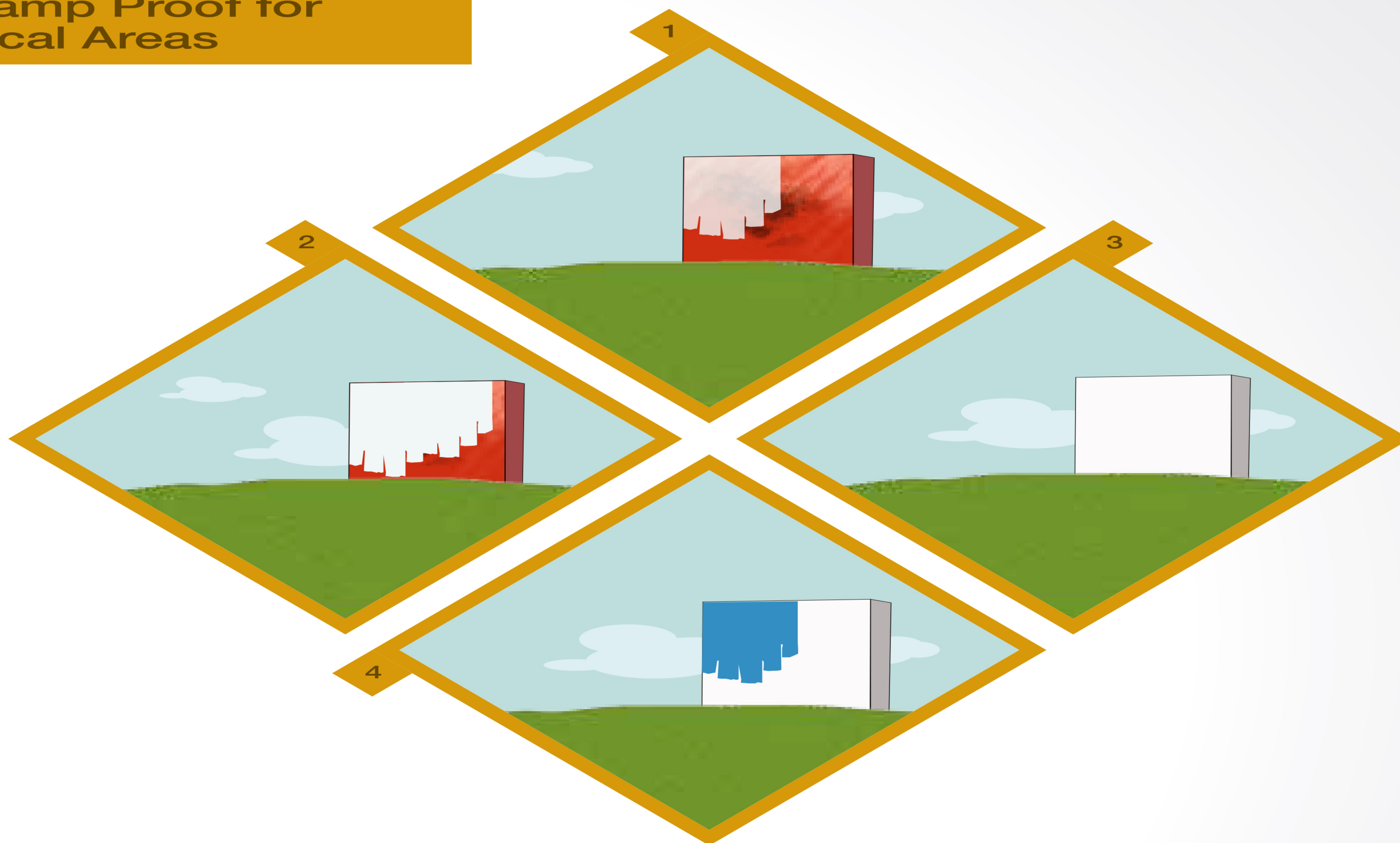
3

Achieve a forced coverage of 10 sq.ft./ltr. for the system*.

4

Allow it to dry for 4-6 hours between two coats.

Application Procedure of Damp Proof for Vertical Areas



1 Apply a self priming coat of **SmartCare Damp Proof** (diluted with water in 3:1 ratio).



2 Apply one coat of **SmartCare Damp Proof** without dilution.



3 Ensure a forced coverage of 25 sq.ft./ltr. for the system#.



4 Apply two coats of any high quality exterior emulsion of the desired shade.



5 Allow it to dry for 4-6 hours between coats.

Material Calculator

*Terrace Area: _____ sq.ft.
 Coverage: _____ 10 sq.ft./ltr.
 Material required: _____ (Affected Area ÷ 10) ltrs.

#Wall Area: _____ sq.ft.
 Coverage: _____ 25 sq.ft./ltr.
 Material required: _____ (Affected Area ÷ 25) ltrs.

For best results, apply all products after consulting with experts.

Damp Proof Advantages



SMARTCARE
DAMP PROOF

VS



POPULAR
COMPETITOR

	<p>Highly flexible up to 220%. Crack bridging ability of up to 2mm</p>	<p>Low elongation of only 93%</p>
	<p>Reinforced with recron fiber for abrasion resistance</p>	<p>Poor abrasion resistance</p>
	<p>Dry Film Thickness of up to 500-600 microns on horizontal application</p>	<p>Dry Film Thickness of up to 300-400 microns</p>
	<p>Strong adhesion to concrete</p>	<p>Medium adhesion to concrete</p>
	<p>Advanced anti-carbonation property</p>	<p>This property is not found in most competitor products</p>
	<p>For terraces and side walls</p>	<p>Separate products for separate areas</p>

Application Procedure for Damp Block



1

Cleaning

Remove old paint, putty or existing POP using a chisel and a wire-brush. Ensure you reach the cement plaster for the product application.

2

Priming

Apply a self-priming coat of **SmartCare Damp Block** (diluted with water in 1:1 ratio).

3

Apply 2 coats of **SmartCare Damp Block** (diluted with water in 3:1 ratio) using a putty knife or a trowel. Achieve a forced coverage of 7.5 sq.ft./kg for the system*).

4

The system should cover an area well over and wide of the affected area. This will prevent water from affecting the adjacent areas.

5

A gap of 4 hours should be given between coats.

6

Apply putty-primer and suitable topcoat. For severely affected areas, apply an additional coat as mentioned above.

Material Calculator

*Affected Area: _____ sq.ft. (Calculate by adding 2 feet beyond the affected area on all sides)
 Coverage: _____ 7.5 sq.ft./ltr.
 Material required: _____ (Affected Area ÷ 7.5) ltrs.

For best results, apply all products after consulting with experts.

Damp Block Advantages



SMARTCARE
DAMP BLOCK

VS



POPULAR
COMPETITOR

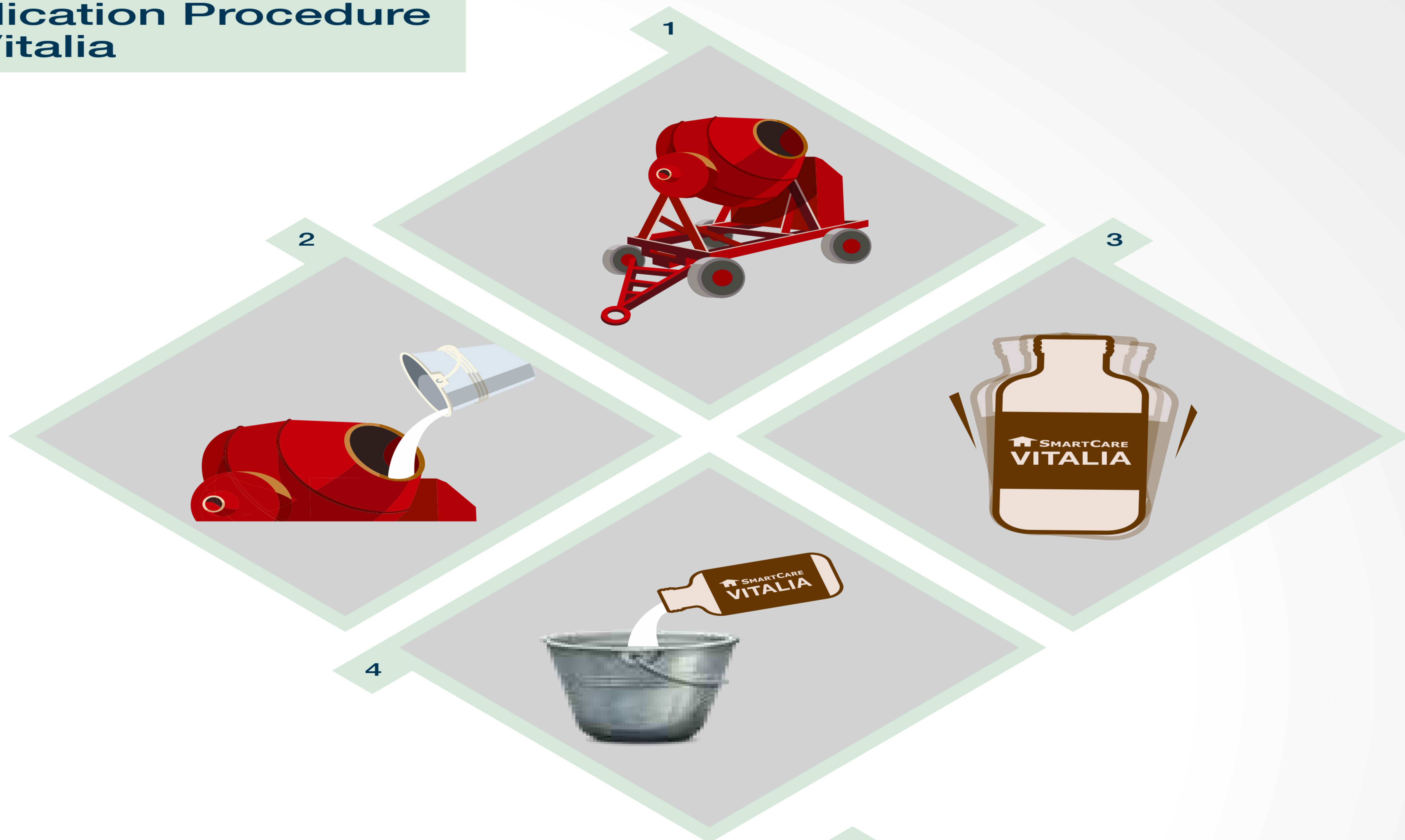
&



PUTTY +
CHEMICAL

	<p>Highly breathable product. Allows water vapor to pass while blocking water</p>	<p>Completely non-breathable. Hence pressure builds up over time</p>	<p>Moderately breathable</p>
	<p>Resists negative hydrostatic pressure of up to 4 bars</p>	<p>Resists negative hydrostatic pressure less than 4 bars</p>	<p>Cannot withstand negative hydrostatic pressure. Dampness starts reappearing within a few weeks</p>
	<p>Highly flexible. Hence can accommodate minor movements and cracks that develop later</p>	<p>Hard and brittle</p>	<p>Very rigid. Hence will crack easily</p>
	<p>Easy-to-apply, single pack product</p>	<p>2 pack product. Not painter friendly</p>	<p>Products to be sourced independently</p>
	<p>Formulated using nanotechnology and crystalline technology</p>	<p>No such technology</p>	<p>Cheap. Not a waterproofing solution</p>
	<p>1mm thickness</p>	<p>60 microns</p>	<p>Putty product does not possess this feature</p>

Application Procedure for Vitalia



1 Charge cement and aggregates to concrete mixer as per the mix design.

2 Mix in dry state for 1-2 minutes. Add 50% to 60% of mixing / gauging water. Mix for 2-3 minutes.

3 Stir the Vitalia container well before use.

4 Vitalia needs to be added as per the recommended dosage into the remaining mixing / gauging water, then added to the concrete mixer and mixed for another 2-3 minutes.

5 Place the concrete or apply plaster as needed.

6 Cure the applied mortar or concrete as per good construction practices.

7 Further finishing like POP or putty can be taken up once the coat is fully dry.

NOTE • Do not add Vitalia directly to dry mix • Recommended dosage: 100 ml of Vitalia for 50 kg cement

For best results, apply all products after consulting with experts.



Vitalia Advantages



SMARTCARE VITALIA

VS



POPULAR COMPETITOR

	<p>Lower dosage (100 ml per 50 kg)</p>	<p>Higher dosage (200 ml per 50 kg)</p>
	<p>Ensures stipulated compressive strength even at double or higher dosage</p>	<p>Compressive strength reduces with increased dosage</p>
	<p>Excellent workability even with crushed rock sand</p>	<p>Poor workability when used with crushed rock sand</p>



SMARTCARE VITALIA

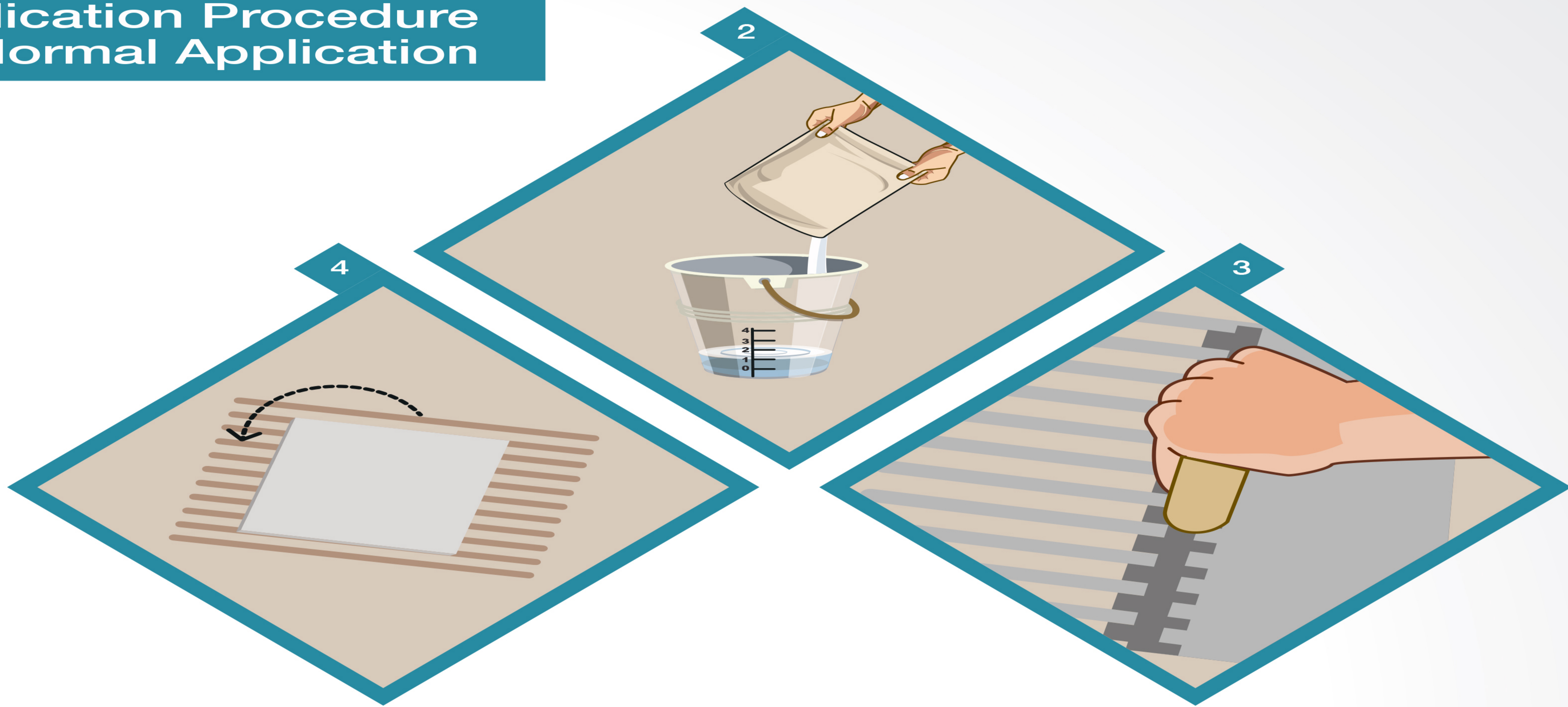
VS



POWDER WATERPROOFING COMPOUND

	<p>Easily dispersible & miscible</p>	<p>Uneven dispersion</p>
--	--	--------------------------

Application Procedure for Normal Application



1

Surface to be tiled must be clean, free from contamination and in SSD (Saturated Surface Dry) condition.

2

Mix Tile Adhesive for Normal Application into clean water in 3:1 ratio by volume (3 parts powder, 1 part water) and stir to get a lump free mortar.

3

Spread the Tile Adhesive for Normal Application on the surface using a trowel (maximum 1 sq. m. area at a time) and comb using a notched trowel of appropriate depth.

4

Press the tile firmly into position with a slight twisting action to maximize contact area.

5

Leave adequate joints between the tiles by using spacers.

6

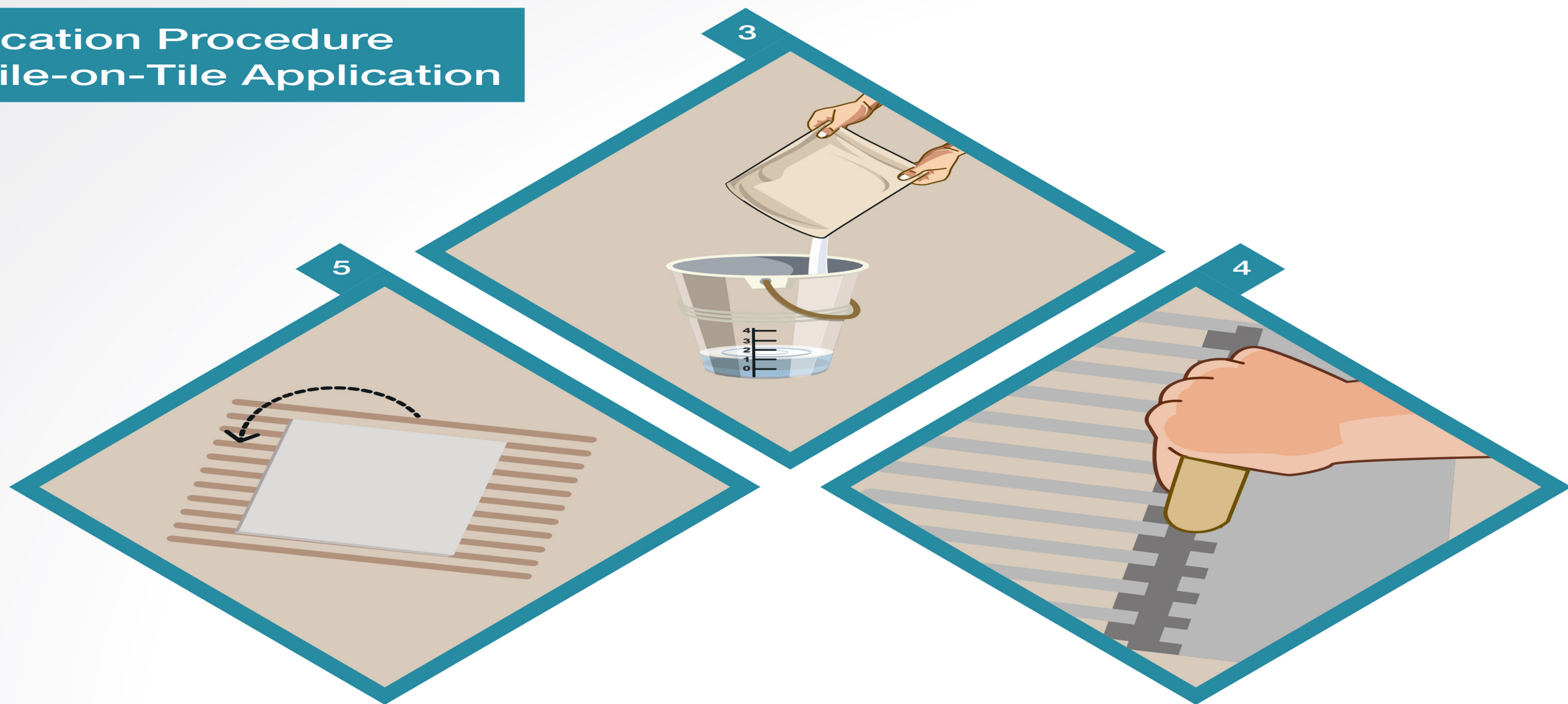
Remove excess adhesive from the tiles and between joints.

PRECAUTIONS AND LIMITATIONS

- 1 Always mix Tile Adhesive for Normal Application to water and not water to the adhesive.
- 2 Tiles can be fixed within 10-15 minutes of Tile Adhesive for Normal Application.
- 3 Tiles can be adjusted up to 15 minutes after fixing.
- 4 After fixing, keep the surface dry for 24 hours.
- 5 For installing heavy tiles and natural stones (marble and granite) on floors and other horizontal surfaces only.

For best results, use SmartCare Tile Grout (Cement or Epoxy) to fill the joints. Tile joints can be filled after minimum 24 hours of application of tiles.

Application Procedure For Tile-on-Tile Application



1

The existing flooring should be in sound condition, properly leveled and free from hollow sounds.

2

Surface to be tiled must be clean, free from contamination and in SSD (Saturated Surface Dry) condition.

3

Mix the Tile Adhesive for Tile-on-Tile Application into clean water in 3:1 ratio by volume (3 parts powder, 1 part water) and stir to get a lump free mortar.

4

Spread the Tile Adhesive for Tile-on-Tile Application on the surface using a trowel (maximum 1 sq. m. area at a time) and comb using a notched trowel of appropriate depth.

5

Press the tile firmly into position with a slight twisting action to maximise contact area.

6

Leave adequate joints between the tiles by using spacers.

7

Remove excess adhesive from the tiles and between joints.

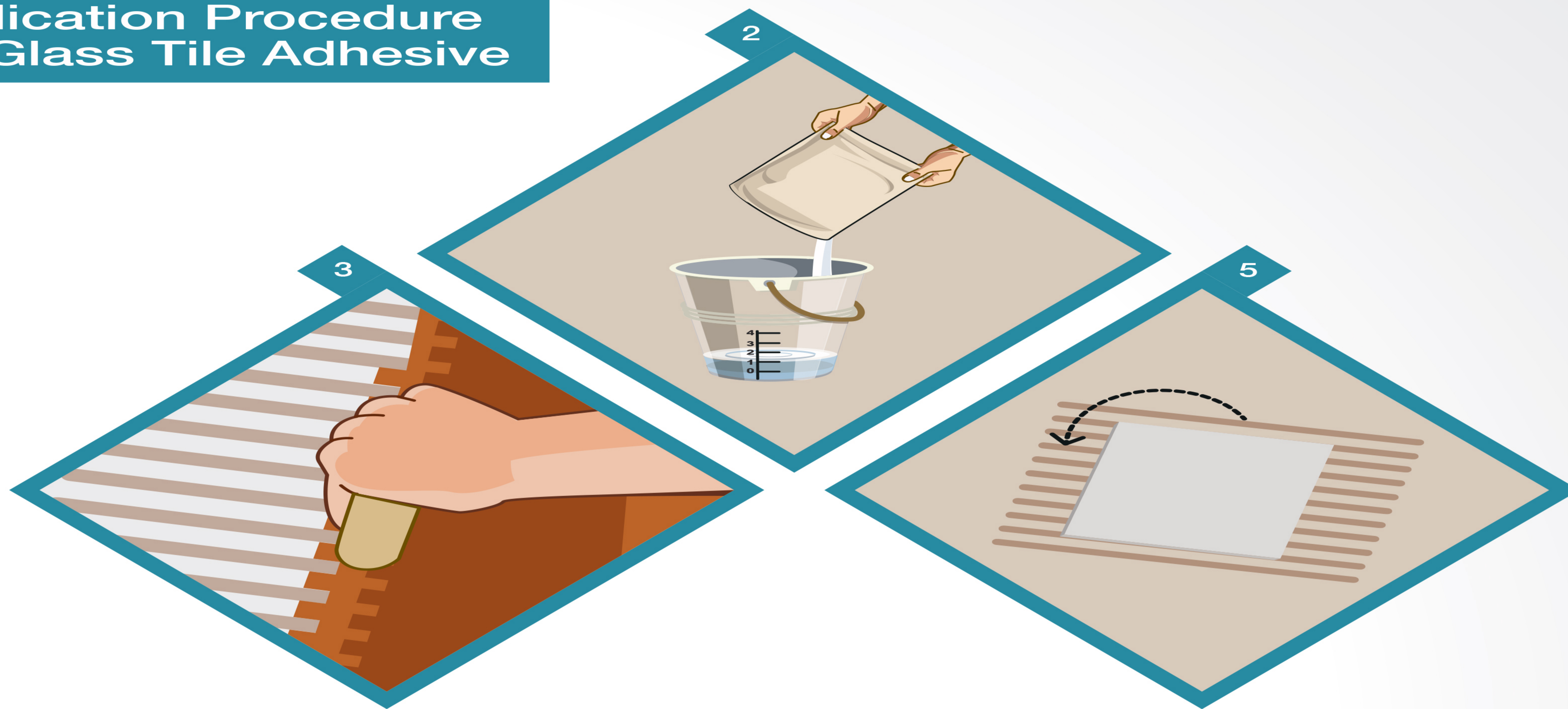
PRECAUTIONS AND LIMITATIONS: In case of a damaged existing surface, improper adhesion or hollow sounds, remove the existing tiles and re-affix it or re-plaster to level the surface before Tile Adhesive for Tile-on-Tile Application.

PRECAUTIONS AND LIMITATIONS

- 1 Always mix Tile Adhesive for Tile-on-Tile Application to water and not water to the adhesive.
- 2 Tiles can be fixed within 10-15 minutes of Tile Adhesive for Tile-on-Tile Application.
- 3 Tiles can be adjusted up to 15 minutes after fixing.
- 4 After fixing, keep the surface dry for 24 hours.
- 5 Meant for installing heavy tiles and natural stones (marble and granite) on tiled horizontal surfaces only.

For best results, use SmartCare Tile Grout (Cement or Epoxy) to fill the joints. Tile joints can be filled after a minimum 24 hours of application of tiles.

Application Procedure For Glass Tile Adhesive



1

Surface to be tiled must be clean, free from contamination and in SSD (Saturated Surface Dry) condition. Suitable surfaces include concrete, cement-sand screed or plaster.

2

Mix Glass Tile Adhesive into clean water in 3:1 ratio by volume (3 parts powder, 1 part water) and stir to get a lump-free mortar.

3

Spread the Glass Tile Adhesive on the surface using a trowel (maximum 1 sq. m. area at a time) and comb using a notched trowel of appropriate depth.

4

Press the glass mosaic tile firmly so that it is set in place. Provide some twisting action for maximum contact.

5

Ensure that tile adhesive seeps out from the joints in the glass mosaic uniformly across the tile.

6

The face of the sheet bonded to the glass mosaic should then be dampened with water and removed carefully.

7

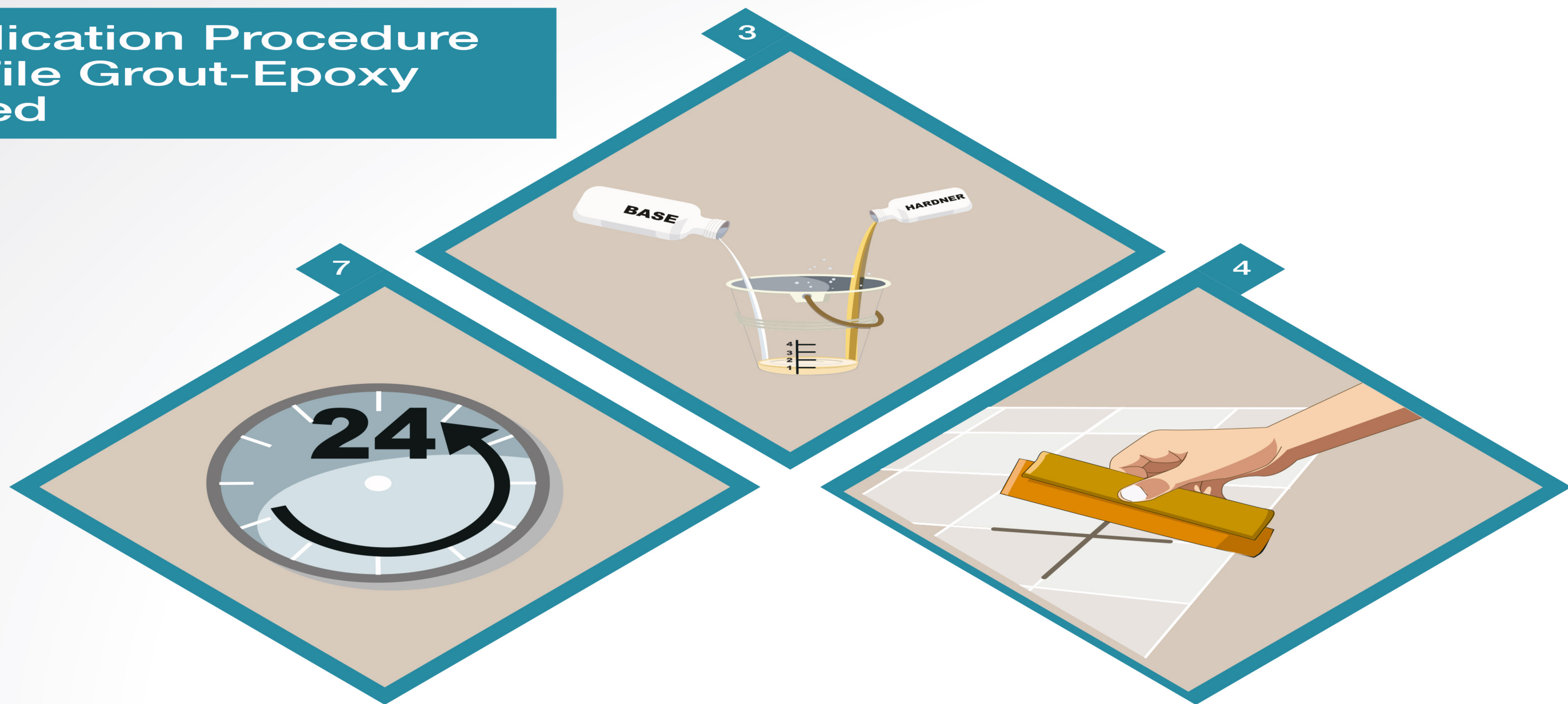
Clean excess adhesive from between the joints and from the tiles.

PRECAUTIONS AND LIMITATIONS

- 1 Do not apply directly on wet surfaces.
- 2 Always mix Glass Tile Adhesive to water and not water to the adhesive.
- 3 Tiles can be fixed within 20 minutes of Glass Tile Adhesive application.
- 4 Tiles can be adjusted up to 25 minutes after fixing.
- 5 After fixing, keep the surface dry for 24 hours.
- 6 Meant for installing heavy tiles and natural stones (marble and granite) on floors and other horizontal surfaces only.

For best results, use SmartCare Tile Grout-Epoxy Based to fill the joints. Tile joints can be filled after a minimum 24 hours of application of tiles.

Application Procedure for Tile Grout-Epoxy Based



1

Make sure tiles are firmly set and tile joints are clean and free of foreign matter, standing water and dirt.

2

To get the desired colour of grout, dispense the required quantity of colour in the Base from DTS (Dealer Tinting System) machine. Mix the colour with base properly.

- Mix complete units of Base and Hardener with each other.
- Mix thoroughly until a homogenous, consistent coloured paste is obtained.

3

By using a hard rubber squeeze, press the grout firmly into joints ensuring that the joints are completely filled.

- Remove the excess grout material from joints and surface by moving the squeeze diagonally to the grout lines.

4

Clean off the surplus grout from tile joints and surface within 20-25 minutes. Use a rough textured sponge dampened with clean water to clean the excess grout and to remove the grout residue.

5

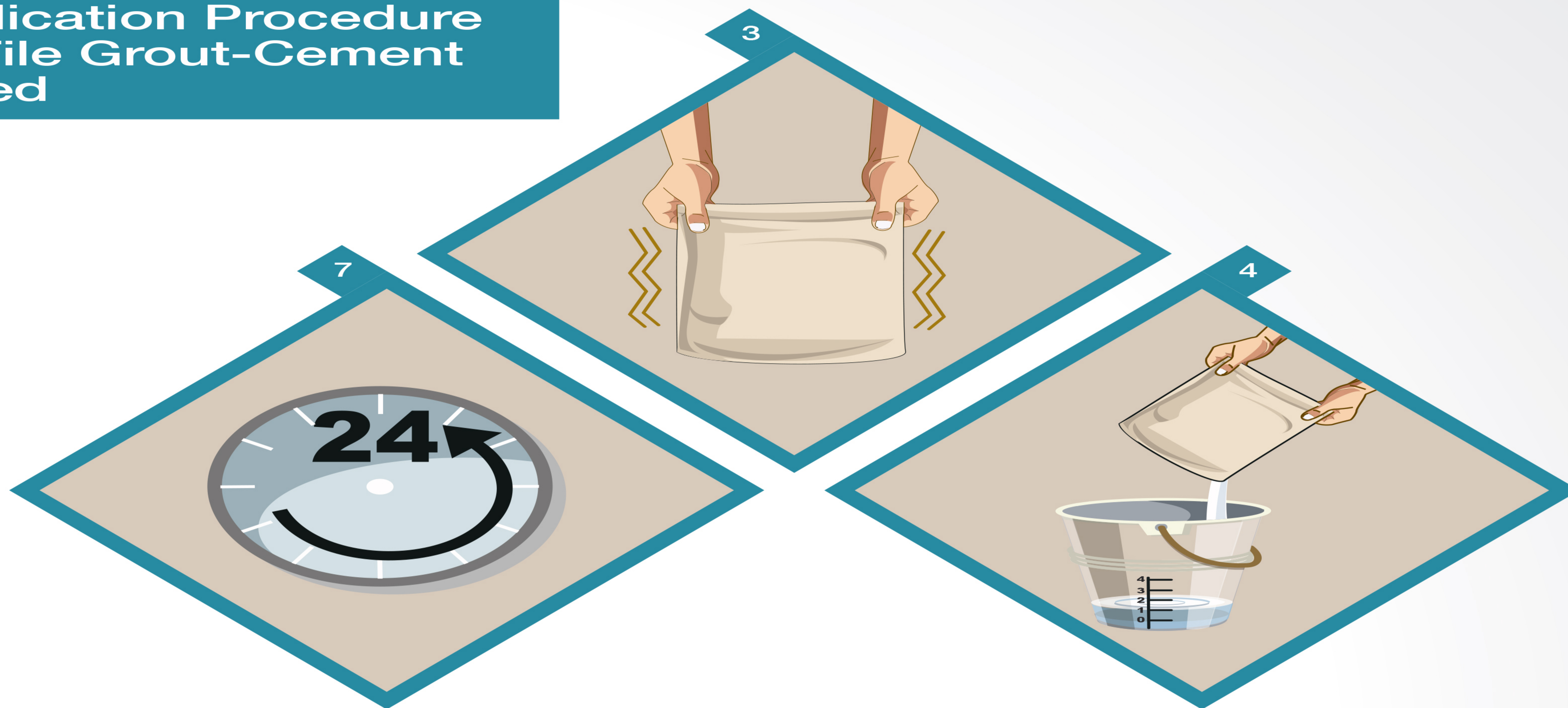
After completion of work, clean the grout haze from the tile with clean water or soap solution.

PRECAUTIONS AND LIMITATIONS

- 1 Wear suitable rubber gloves to avoid skin contact during application.
- 2 Never apply the Tile Grout-Epoxy Based on wet/damp surface.
- 3 Always mix complete units. The Base and Hardener are packaged to the exact quantity ratio for proper mixing. Partial mixing will result in improper curing of the grout.
- 4 Do not allow water to flow/run in to un-grouted joints during application.
- 5 Apply masking tapes along tile joints while working on unglazed floor tiles, natural stone tiles with matt glaze or textured surfaces.

For best results, use SmartCare Tile Grout (Cement or Epoxy) to fill the joints. Tile joints can be filled after a minimum 24 hours of application of tiles.

Application Procedure for Tile Grout-Cement Based



1

Before grouting make sure that the tiles are firmly set and the tile adhesive is cured.

2

Tile joints must be clean, free of oil and other foreign matter. About 2/3rd of the depth of the tile should be available for grouting.

3

Shake the bag thoroughly to avoid any colour variation. If more than two bags are to be used, dry blend first.

4

Press the glass mosaic tile firmly so that it is set in place. Provide some twisting action for maximum contact.

5

Ensure that tile adhesive seeps out from the joints in the glass mosaic uniformly across the tile.

6

The face of the sheet bonded to the glass mosaic should then be dampened with water and removed carefully.

7

Clean excess adhesive from between the joints and from the tiles.

PRECAUTIONS AND LIMITATIONS

- 1 Do not use when high chemical or stain resistance is required or in an industrial environment. In such cases, use Asian Paints SmartCare Tile Grout-Epoxy Based.
- 2 When 2 or more bags are required, it is advisable to dry blend the powders first to avoid colour variation.

For best results, use SmartCare Tile Grout-Epoxy Based to fill the joints. Tile joints can be filled after a minimum 24 hours of application of tiles.



Tile Adhesive for Normal Application



Tile Adhesive for Tile-on-Tile Application



Glass Tile Adhesive



Conventional Solutions



About the Product

Provides superior and sustainable adhesion that prevents any tile cracking or hollow sounds

Allows you to fix new tiles over existing tiles thus eliminating the time, cost and debris associated with removal of old tiles

Provides excellent adhesion for fixing expensive and extremely delicate glass mosaic tiles

Manually mixed ordinary cement and sand mixtures



Quality

Factory controlled manufacturing using pre-mixed grey cement, sand & special additives. Meets the requirements of IS15477

No quality control and no standardised manufacturing. The mixing ratio and quality of material being used depends entirely on the skill of the applicator



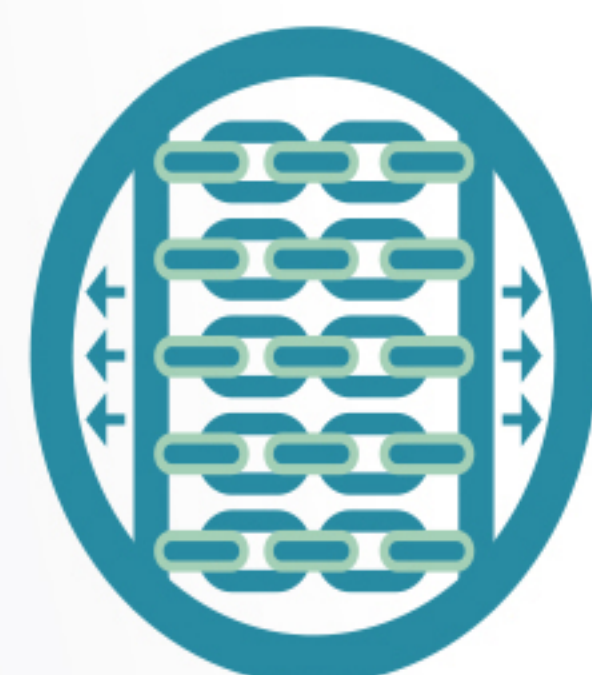
Tile-on-Tile

No

Yes

No

No



Excellent Adhesion

High bond & shear strength resulting in excellent adhesion

Low bond and shear strength



Durability

100% contact between the tile and surface can be achieved, preventing any cracking or hollow sounds

Lack of proper contact between the tile and surface leads to poor adhesion, hollow sounds and hence cracking in tiles



Water Absorption

Low water absorption

High water absorption

TILE ADHESIVES



Tile Adhesive for Normal Application



Tile Adhesive for Tile-on-Tile Application



Glass Tile Adhesive



Conventional Solutions



Labor Intensive

Large quantities of the mixture can be created in one go because the material is usable for 2-3 hours. Pre-soaking and wet curing of tiles is not required

Requires repeatedly creation of small mixtures because they dry up very quickly. Pre-soaking and wet curing of tiles is required



Adjustability Time

Correcting any mistakes is easy because tiles can be adjusted up to 15 minutes after fixing

No adjustability time



Shock Resistance

Good shock resistance for absorbing vibrations due to foot traffic etc

No shock resistance



Decor

Tiles can be fixed from any corner, preventing inappropriate tile cutting

Tiles can be fixed from the bottom only



Areas of Usage

Permanent installation of ceramic, vitrified and porcelain tiles on horizontal or vertical masonry surfaces in interiors as well as exteriors. This product can also be used for installation of heavy tiles and natural stones like marble and granite, on floors or other horizontal surfaces.

Permanent installation of ceramic, vitrified and porcelain tiles on top of existing tiles. This product can also be used for installation of heavy tiles and natural stones like marble and granite, on tiled horizontal surfaces.

Fixing decorative glass tiles in interiors as well as exteriors. This product can also be used for installation of heavy tiles and natural stones like marble and granite, on floors or other horizontal surfaces.

TILE GROUTS



Tile Grout – Cement based



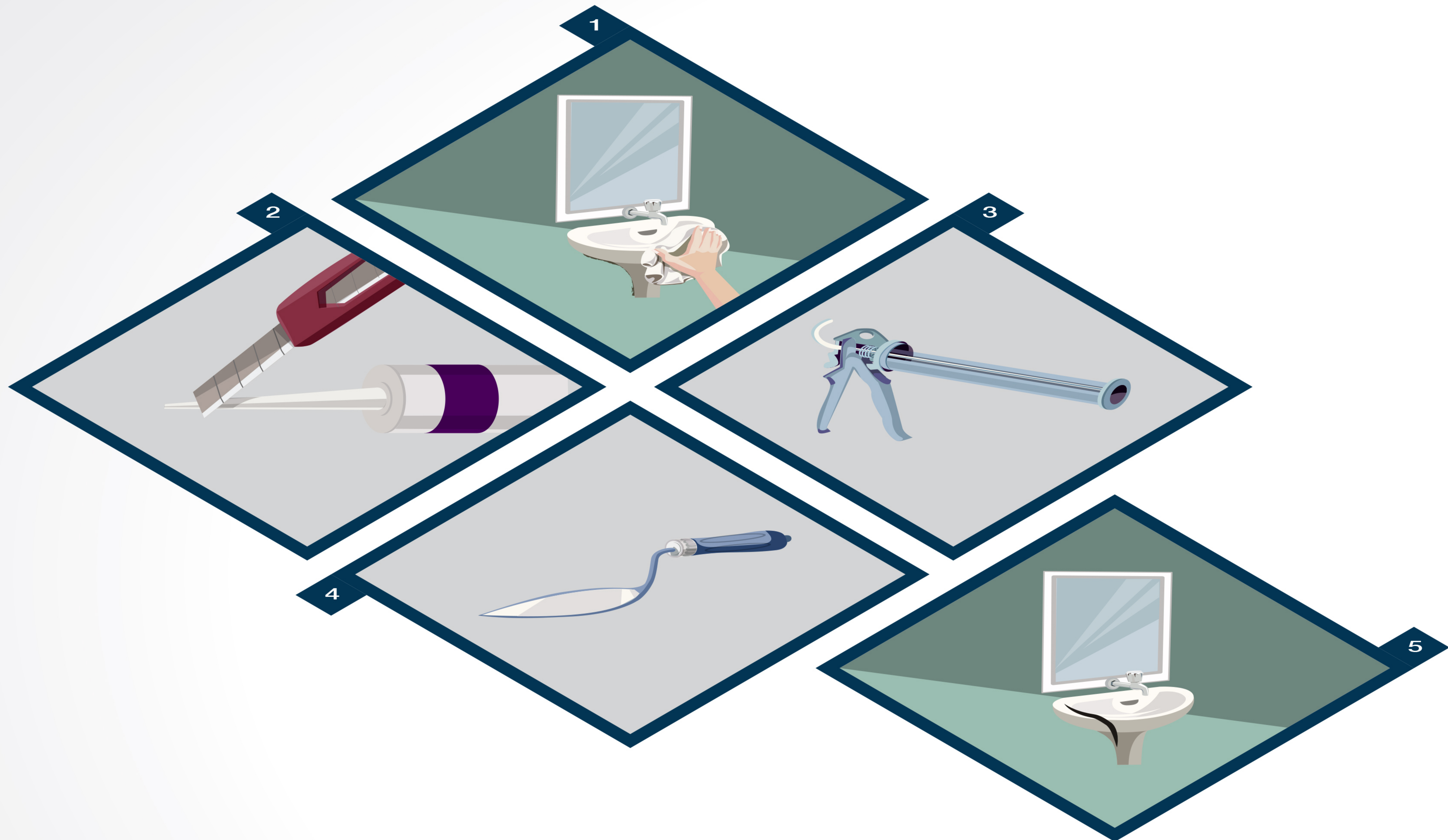
Tile Grout – Epoxy based



Conventional Solutions

 About the Product	<p>Offers 7 brilliant shades that not only enhance the beauty of tiles but also provide water, stain and household cleaner resistance</p>	<p>Water impervious, non-toxic grout that is durable until the life of the tile and is especially meant for areas of hygienic importance or areas that suffer from constant chemical attacks</p>	<p>Ordinary white cement or white cement mixed manually with colourants</p>
 Quality	<p>Factory manufactured single component cement-based grout having special polymers and additives and meets the requirements of ANSI 118</p>	<p>Factory manufactured 2 component epoxy resin-based product</p>	<p>No quality control and no standardised manufacturing. The mixing ratio and quality of material being used depends entirely on the skill of the applicator</p>
 Durability	<p>Durable grout that can be used for joints up to 5mm in width</p>	<p>Durable grout that can be used for joints up to 10mm in width</p>	<p>Non-durable filler that corrodes away with time. Just a temporary solution</p>
 Waterproofing	<p>Water-resistant cement based grout that helps in protecting décor</p>	<p>Water impervious epoxy based grout that helps in protecting décor</p>	<p>No waterproofing. In fact lack of water resistance can lead to paint spoilage on adjacent walls</p>
 Shock Resistance	<p>High flexural strength for absorbing vibrations from foot traffic etc.</p>	<p>High flexural strength for absorbing vibrations from foot traffic etc.</p>	<p>Low flexibility results in white cement cracking due to vibrations</p>
 Chemical Resistance	<p>Withstands attacks from chemicals like household cleaners</p>	<p>Withstands attacks from chemicals like acid solutions, toilet cleaners, household cleaners etc making it perfect for areas exposed to constant chemical attacks like swimming pools, industrial floors etc.</p>	<p>No chemical resistance</p>
 Stain Resistance	<p>Resists stains and can be cleaned easily</p>	<p>Stain resistant is best suited for areas where hygienic or sterile conditions are paramount like hospitals, kitchens, food processing units etc.</p>	<p>No resistance to stains and gets dirty easily</p>
 Decor	<p>Available in 7 brilliant factory shades</p>	<p>Available in 26 brilliant shades</p>	<p>Lack of shades. Has to be manually mixed with dry colorants leading to problems like shade variations</p>
 Areas of Usage	<p>For tile joints up to 5mm in width between all types of tiles and natural stones</p>	<p>For tile joints up to 10mm in width. Ideal for areas that require a hygienic or sterile environment like food processing units, hospitals, kitchens, swimming pools etc.</p>	<p>---</p>

Application Procedure for Unyverseal



1 Clean the surface thoroughly (Remove oil/grease by degreasing solvent).

2 Cut nozzle and cartridge according to joint dimensions.

3 Apply using a sealant gun.

4 Use a palette knife for tooling the surface and removing the air bubbles.

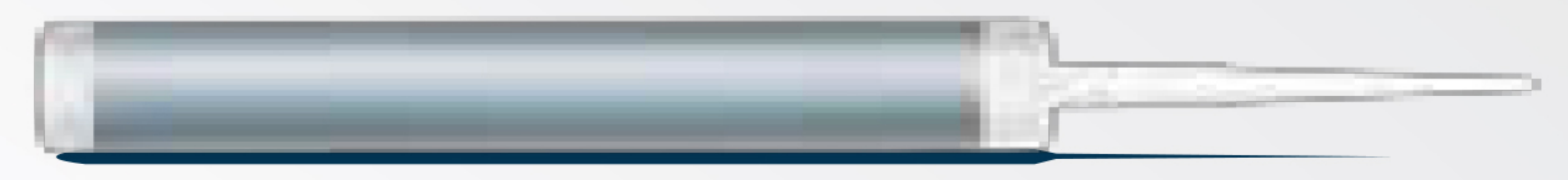
5 Use masking tape on both the sides of the joint to get neat and uniform application.



Unyverseal Advantages



VS



SMARTCARE UNYVERSEAL

POPULAR COMPETITOR

	Neutral Oxim and hence odorless	Acid cured, hence has pungent smell (like vinegar)
	Non-Corrosive. Can be used on aluminium, lead, copper, brass, steel	Acid corrodes, metal substrates
	Excellent adhesion on alkaline surfaces like cement & concrete plaster	Adhesion failure on alkaline surfaces



VS



SMARTCARE UNYVERSEAL

STANDARD PUTTY

	Accommodates joint movement up to 25%	Does not accomodate joint movement
	ISO 846 certified protection from fungi	No fungi resistance

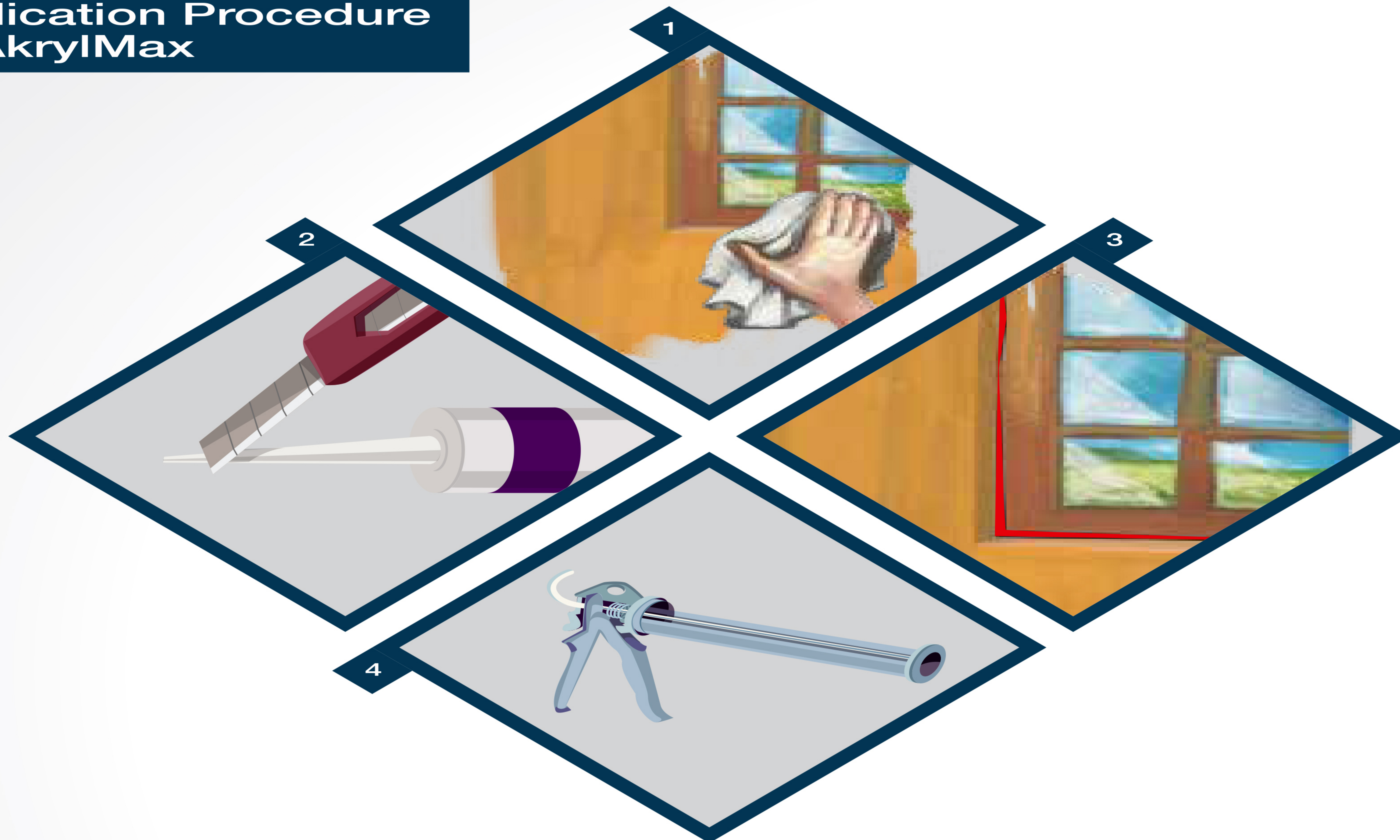
Colours Available

White, Grey, Black, Clear.
Silicone Sealants cannot be painted over.

For best results, apply all products after consulting with experts.



Application Procedure for AkrylMax



1

Clean the surface thoroughly (Remove oil/grease by degreasing solvent).

2

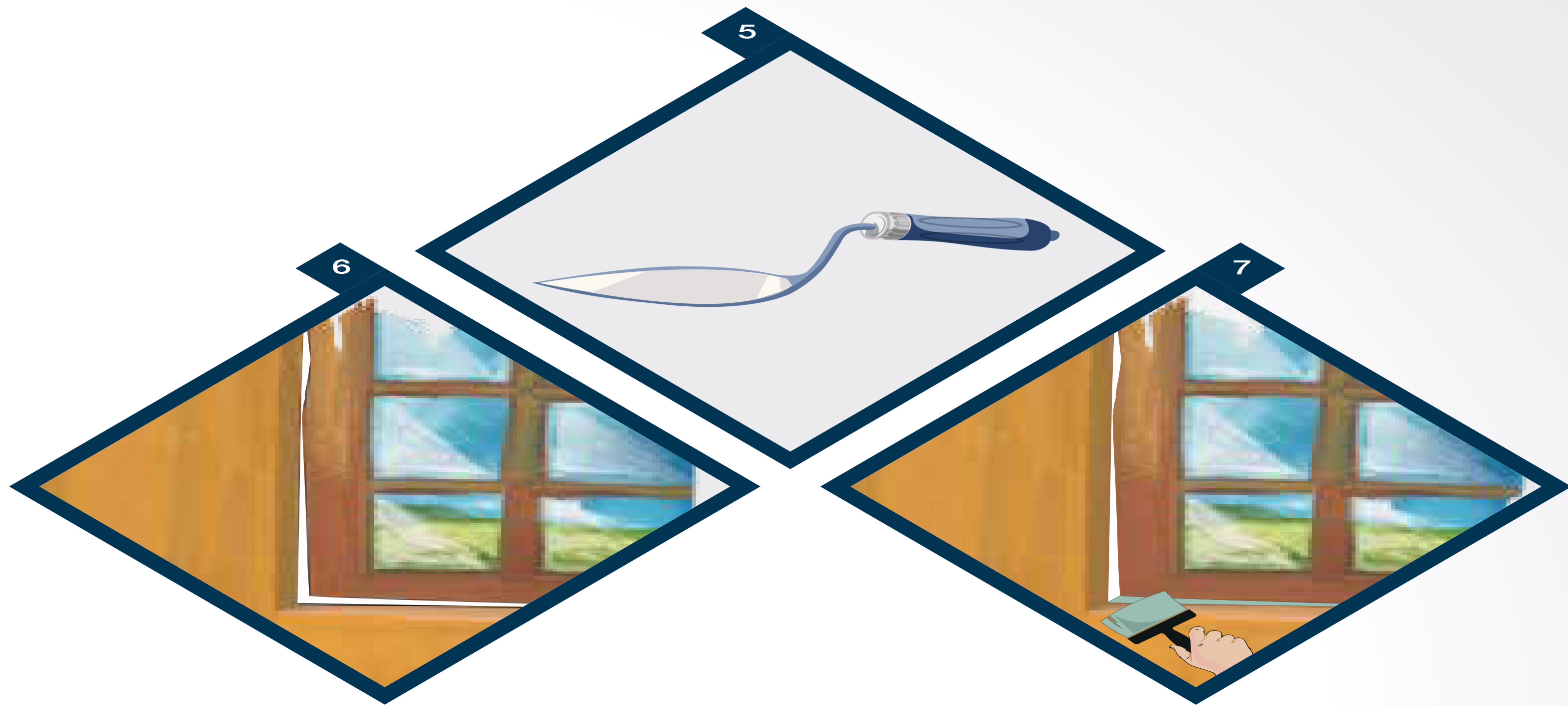
Cut nozzle and tip of cartridge according to joint dimensions.

3

Use primer* before application.

4

Apply using a sealant gun.



5

Use a palette knife for tooling the surface and removing the air bubbles.

7

Apply a second coat after 6 hours of drying.

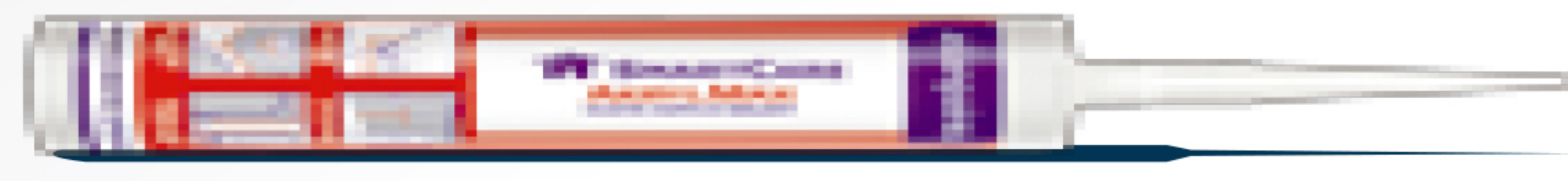
6

Use primer* before top coating with a water-based paint.



Primer - For interior, use diluted **AkrylMax** or **Asian Paints Decoprime** water based primer and for exteriors use diluted **Akrylmax** or **Asian Paints Exterior Primer**.

AkrylMax Advantages



AKRYLMAX
ADVANTAGES

VS



STANDARD
PUTTY

	<p>Excellent adhesion on multiple surfaces</p>	<p>Adhesion on limited surfaces</p>
	<p>Accommodates joint movement up to +/- 7.5 %</p>	<p>Does not accommodate joint movement</p>
	<p>Water resistant</p>	<p>Not Water resistant</p>
	<p>High durability</p>	<p>Low durability</p>
	<p>Fills gap up to 20 mm</p>	<p>Material will crack at 20 mm</p>

colour tool



Satinscapes

Satinscapes highlights the flexibility of Premium Satin Enamel. Applicable with equal ease on walls, metals and wooden surfaces, this book illustrates how Premium Satin Enamel can transform different spaces with its wide range of shades and combinations.

Care while painting is of utmost importance to ensure that your creations look good for many years to come. Whether it's before, during or post painting, keeping in mind a few simple checks can save a home from many post painting issues.

However, when dealing with more serious issues like blistering, chalking and fungal growth, turn to the painting defects section to find recommended solutions that can easily rectify these problems.

painting care & defects



painting care

pre painting care



Check the surface for dampness from water seepage



Surface irregularities like holes, dents, cracks need to be filled



For repainting, ensure that old paint is scraped off completely. Give 7-21 days for plaster to dry properly

care while painting



Before the paint is applied it must be diluted with either water or mineral turpentine oil



Use masking tape to prevent paint from spilling over to other walls



Make sure there is good ventilation in the room while painting

post painting care



Always keep the walls clean and fresh. Clean stains with soft cloth soaked in detergent solution



Employ a good civil contractor to check wear and tear and to fix cracks from time to time



The hot sun can cause enamel paint on your windows, doors and grills to lose its gloss

painting defects

dampness

Wet and discoloured patches on walls are sure shot signs of dampness. Brought upon by water leakages from internal drain pipes or bathroom tiles, rainwater running down the sides of exterior walls or waterlogging on terraces and chajjas, they cause the following paint defects:

- **Blistering:**
Appearance of boils on the wall surface
- **Peeling/Flaking:**
Detachment of the paint film from the surface (papdi formation)
- **Algal and Fungal growth**
on walls



solution interior surfaces

Asian Paints SmartCare Damp Block is recommended to treat interior walls affected by dampness.

As a cementitious waterproof coating with nano-technology based additives, the SmartCare Damp Block coat acts as a strong barrier to dampness.



Features

- **Waterproofing:** Resist 4 bars of negative hydrostatic pressure
- **Nano-technology:** Contains nano sized particles that fill the pores in the plaster to block water ingress
- **Crack bridging:** Ability to bridge hairline cracks
- **Breathability:** Breathable nature allows water vapour to pass
- **Flexible yet strong:** Excellent adhesion to substrate and yet accommodates minor surface movements
- **Easy usage:** Single pack, ready-to-use and easy to apply product

Recommended Application

- Remove old paint, putty or existing POP using chisel and wire-brush
- Repair the source of leaks before treating walls for dampness
 - a. For bathroom adjacent walls, fill open tile joints (especially corners) with suitable tile grouts
 - b. For exterior facing walls, fill the gaps between the door/window frames and adjacent walls with a suitable sealant
 - c. Repair leaking pipes/blocked drainages if any (especially concealed)

Product Application

Step	Product	Dilution (water)	Forced Coverage (sq. ft/kg/coat)	Application Tool	Re-coating Period
Self Priming	SmartCare Damp Block	1:1	–	Brush	4-6 hours
Waterproofing (1st Coat & 2nd Coat)	SmartCare Damp Block	3:1 (each coat)	7.5	Putty knife / Trowel	4-6 hours
Leveling	Asian Paints Wall Putty	Level the wall surface using Asian Paints Wall Putty			
Normal Painting	Primer + Topcoat	Continue normal painting system using Primer + Topcoat			

solution exterior surfaces

Application of Asian Paints SmartCare Damp Proof is recommended to waterproof external walls from dampness.

SmartCare Damp Proof is a fiber reinforced elastomeric membrane that forms an excellent waterproofing coating on exterior walls.



Features

- **Anti-carbonation:** Stops diffusion of carbon dioxide to prevent carbonation
- **Waterproofing:** Protection of up to 7 bars positive hydrostatic pressure
- **Crack bridging:** Ability to bridge cracks up to 2 mm on vertical walls
- **Heat proof:** Heat reflection property provides cooling effect to buildings
- **Strong yet flexible:** Abrasion resistant film suitable for foot traffic with high elongation
- **Easy usage:** Single pack, ready-to-use and easy to apply product

Recommended Application

- Clean the surface with a wire-brush and ensure that it's free of dust, grease and loose particles
- Surface cracks should be properly treated. Small cracks up to 3mm can be filled with Asian Paints SmartCare Crack Seal
- Ensure drain pipes are not clogged and all external plumbing leakages are rectified

Product Application (Vertical Surface)

Step	Product	Dilution (water)	Forced Coverage (sq. ft/kg/coat)	Application Tool	Re-coating Period
Self Priming	SmartCare Damp Proof	3:1	—	Brush	4-6 hours
Waterproofing (1st Coat)	SmartCare Damp Proof	0 (No dilution)	30-35	Brush / Roller	4-6 hours
Decorative (1st Coat)	Apex / Ultima (Any shade)	40%	120	Brush / Roller	4-6 hours
Decorative (2nd Coat)	Apex / Ultima (Any shade)	40%	120	Brush / Roller	4-6 hours

Product Application (Horizontal Surface)

Step	Product	Dilution (water)	Forced Coverage (sq. ft/kg/coat)	Application Tool	Re-coating Period
Self Priming	SmartCare Damp Proof	3:1	—	Brush	4-6 hours
Waterproofing (1st Coat & 2nd Coat)	SmartCare Damp Proof	0 (No dilution)	10	Brush / Roller	4-6 hours



blistering

can also be caused by:

- Improper curing of masonry (Cement Plaster / POP) surface
- Improper curing of primer / basecoat / inner coat
- Incorrect thinner
- Exposure of water-based paint film to dew, high humidity or rain



peeling / flaking

can also be caused by:

- Contamination of the surface due to oil, dirt or grease
- Excess deposition of thick paint film
- UV exposure
- Direct application of paint without surface cleaning
- For wooden surfaces it's caused when:
 - Wood has not dried completely
 - Incorrect primer used
 - Prolonged contact with water



algal and fungal growth

can also be caused by:

- If surface has been repainted without proper surface preparation
- Poor ventilation around the affected area
- Rainwater collection on horizontal surfaces

painting defects

cracks

Cracks appear as a result of the wall surface splitting along a line due to structural aging. They are prime breeding grounds for algae and unwanted weeds and if ignored can make walls more susceptible to dampness.

Cracks are caused by the following:

- **Weathering of the structure**
- **Thermal contraction or expansion**
- **Lack of appropriate control joints**
- **Overload conditions that produce flexural, tensile, or sheer cracks in concrete**



solution

Asian Paints recommends SmartCare Crack Seal as a solution for cracks on wall surfaces.

SmartCare Crack Seal is a ready-to-use crack filling compound for both interior and exterior surfaces. It's ideal to fill and seal non-structural cracks up to 3 mm.



Key features

- **Crack filling ability:** Fills plaster cracks up to 3 mm in width
- **Waterproofing:** Water resistant film stops water ingress through the cracks
- **Reinforcement:** Reinforced with glass fibers for superior tensile strength
- **Strong yet flexible:** Fiber-reinforced strong film along with high elongation to accommodate movement
- **Easy usage:** Comes in a ready-to-use pack and is also easy to apply

Recommended Application

- Open and widen the cracks in a 'V' shaped groove for better adhesion (Use of a grinder with 2 mm blade for opening cracks is recommended)
- Rid the area of dust and loose particles
- Prime the opened cracks. Use Asian Paints Decoprime water-based primer for interior cracks and Asian Paints Exterior Primer for exterior cracks

Product Application

Step	Product	Dilution (water)	Forced Coverage (sq. ft./kg/coat)	Application Tool	Re-coating Period
Crack Filler (1st coat)	SmartCare Crack Seal	0 (No dilution)	-	Spatula / Putty knife	12 hours
Crack Filler (2nd coat)	SmartCare Crack Seal	0 (No dilution)	-	Putty knife / Trowel	4-6 hours

Note:

- Press the paste firmly into the crack and level with the surface
- Spread well on either side of the crack for better adhesion
- Apply in consecutive perpendicular layers to avoid leaving air pockets
- Finishing like POP or Putty can be undertaken once the coat is fully dry



other defects

chalking

If a layer of powdery paint comes off upon gentle rubbing or wiping across the surface with your hand, that's chalking. It could be caused by the following factors:

- Missing primer coat
- Improper surface preparation
- Use of under-bound putty
- Highly porous surface
- Use of interior paints on exteriors
- Over thinning
- Salty atmosphere

solution

- Remove the chalky matter as much as possible through sanding & wiping
- Rinse the surface thoroughly & then apply a coating of a good primer
- Use Asian Paints SmartCare Exterior Sealer for prevention



Causes of Lime Blooming:

- Lime content of the plaster is very high and during curing of the plaster a part of it leaches out of the surface
- Directly painting fresh plaster with economy exterior emulsions

solution

- Use Asian Paints SmartCare Exterior Sealer for prevention
- Scrape with a wire-brush and repaint with a superior exterior emulsion like Apex Ultima or Apex
- Slight blooming can be removed by polishing or wiping the affected area
- In severe cases, finely sand the affected area before repainting

patchiness

You can make out if a wall is suffering from patchiness when certain areas of the wall surface has a differing degree of texture or gloss, surrounded generally by clearly defined boundary or coloured lines. The reason for patchiness could be the following:

- If the primer coat is not applied
- Non uniform absorption of paint
- Undercoat has not dried
- Very thin film of finish coat on the surface
- High alkalinity of surface

solution

- Use Asian Paints SmartCare Exterior Sealer for prevention
- In minor cases, apply one or two coats of a good quality topcoat in its recommended dilution
- If observed over a larger surface then sand the surface lightly, apply a coat of primer before painting 2-3 times with a good quality topcoat
- In severe cases, scrape the surface completely and repaint, following the right painting system



lime blooming

Mainly seen on exterior surfaces, the whitish marks or powder-like deposits on the surface of the paint film is termed as Lime Blooming. Often, it's also mistaken for shade fading.

