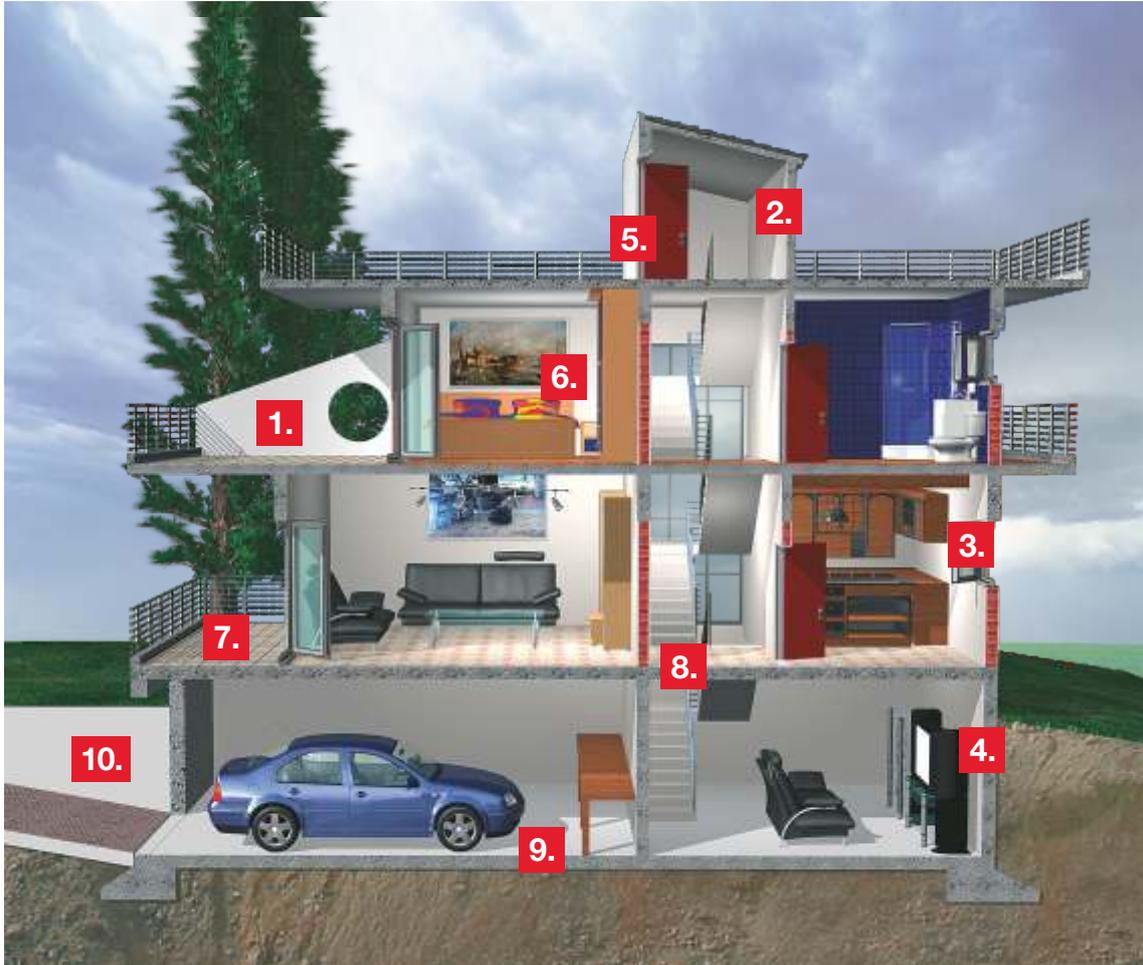




Repairs & Maintenance of Dwellings

Step by step presentation of repairing & constructional solutions



Repairs and Maintenance of Dwellings

The maintenance and repair of dwellings often cause problems not only to individuals, but also to professionals. The choice of the appropriate materials and their proper application are crucial for the solution of these problems. Therefore, in **ISOMAT** we have developed a wide range of repairing and constructional solutions, based on our experience and our know-how, for a variety of cases regarding repairs and maintenance of dwellings. This particular brochure, in which a step by step photographic presentation of solutions is demonstrated, shall constitute a comprehensive guide for everyone.

However, every repairing or maintenance work has its own particularity, as the factors causing these problems vary. This situation renders impossible describing and tackling all sub-cases. For this reason, if you need more information, you can consult the Technical Support Department of **ISOMAT**. Our highly specialized and experienced engineers are ready to provide you with the proper technical solution to any difficulty arising in your repairing works.

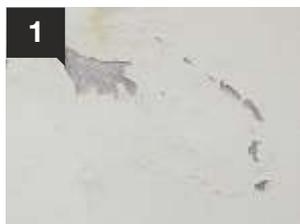
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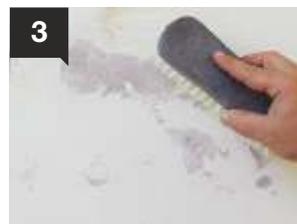
1. Problem: Paint repair

REPAIR OF DAMAGED PAINT ON EXTERNAL WALLS

Paint detachment may occur due to wrong application (lack of priming, wet substrate), bad quality (very low strength, absorptivity) or the moisture coming from the back side of the wall.



1 After all possible moisture problems have been restored, the old paint is rubbed off with a putty knife in order for the bulges to be removed.



3 Then, the surface is thoroughly cleaned of any dust.



4 The substrate is primed with **FLEX-PRIMER**.



5 After the primer has dried, the surface is painted with **FLEXCOAT** in two layers.



6 The second layer of **FLEXCOAT** is applied, as soon as the first one has dried.

PRODUCTS

- **FLEXCOAT** High quality, elastic, waterproofing paint. Coverage: 8-12 m² per liter, per layer
- **FLEX-PRIMER** High quality acrylic water-based primer. Coverage: 5-10 m²/kg

2. Problem: Plaster repair

REPAIR OF RANDOM CRACKS ON PLASTER

Random cracks on plaster can be easily restored, as long as they are superficial and have not been caused by masonry cracks.



1 The crack is initially opened and all loose particles are removed.



2 Then, the crack is cleaned of any dust.



3 And slightly dampened.



4 **FLEX-COVER** is prepared, adding A-component (cementitious powder) into B-component (acrylic polymer dispersion) under continuous stirring.



5 The crack is sealed applying **FLEX-COVER** with a putty knife.



6 After the sealing material has dried, the surface is primed with **FLEX-PRIMER** and then painted with **FLEXCOAT**.

TIP: In this particular application, instead of **FLEX-COVER**, the elastoplastic acrylic sealant **ISOMASTIC-A** can also be used.

PRODUCTS

- **FLEX-COVER** Two-component, flexible putty. Consumption for sealing joint of 5 mm x 5 mm: 40 g/m of joint length
- **FLEXCOAT** High quality, elastic, waterproofing paint. Coverage: 8-12 m² per liter, per layer
- **FLEX-PRIMER** High quality acrylic water-based primer. Coverage: 5-10 m²/kg
- **ISOMASTIC-A** Elastoplastic acrylic sealant

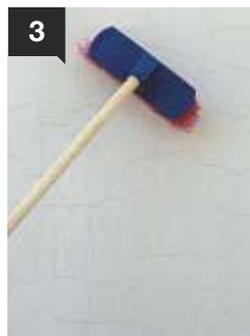
REPAIR OF HAIR CRACKS ON PLASTER



The existence of hair cracks on plaster, is possible to lead to more serious problems, in case they are not tackled in time.



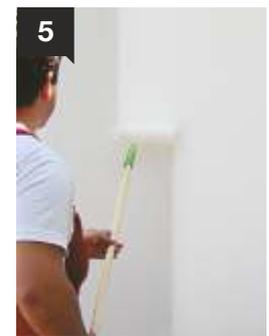
Firstly, the surface needs to be cleaned of dust, etc.



Then, the dry surface is primed with **FLEX-PRIMER**.



After the primer has dried, the surface is then painted with **FLEXCOAT** in two layers.



The second layer is applied after the first one has dried.

TIP: In case the cracks are multiple and intense, it is recommended to reinforce the first **FLEXCOAT** layer be reinforced, while still wet, with the polyester-fabric of 1 m width. Then, for the polyester-fabric embodiment, two more **FLEXCOAT** layers are needed. Alternatively, repairing multiple and intense cracks could be done with the use of the two-component, elastic putty **FLEX-COVER**, as described below.

PRODUCTS

- **FLEXCOAT** High quality, elastic, waterproofing paint. Coverage: 8-12 m² per liter, per layer
- **FLEX-PRIMER** High quality acrylic water-based primer. Coverage: 5-10 m²/kg
- **Polyester-fabric**, for reinforcing waterproofing layers (30 g/m²)

REPAIR OF INTENSE MULTIPLE CRACKS ON PLASTER



Intense hair cracks on plaster may occur due to its wrong application (deficient dampening during summer months, lack of plaster reinforcement when applied on thermal-insulating boards etc.), as well as due to its bad quality.



Firstly, the surface needs to be cleaned of dust, etc.



Then, it is primed with **FLEX-PRIMER** follows. Especially when plasters are relatively unstable, **FLEX-PRIMER** is needed to stabilize their surfaces.



FLEX-COVER is prepared by adding A-component into B-component under continuous stirring.



After the primer has dried, **FLEX-COVER** is applied with a putty knife on the cracked surface in one layer.



After the **FLEX-COVER** layer has dried, it is necessary to prime with **FLEX-PRIMER** and paint with **FLEXCOAT**.

PRODUCTS

- **FLEX-COVER** Two-component, flexible putty. Consumption for puttying surfaces: 1.6 kg/m²/mm of layer thickness
- **FLEXCOAT** High quality, elastic, waterproofing paint. Coverage: 8-12 m² per liter, per layer
- **FLEX-PRIMER** High quality acrylic water-based primer. Coverage: 5-10 m²/kg

REPAIR OF CRUMBLED PLASTER



1
If a plaster is not water repellent, it starts to crumble and it finally gets detached.



2
Firstly, all crumbling parts of the plaster are removed with a putty knife.



3
Then, the surface is cleaned of any dust.



4
Next, the surface is primed with **FLEX-PRIMER** or **NANO-SEAL**, in order to be stabilized.



5
The products used are **UNICRET** or **UNICRET-FAST**, improved with the addition of **ADIPLAST**.



6
Products are applied with a trowel, after the primer has dried.



7
After the plaster has slightly dried, it is treated (rubbed) with a sponge-faced float.



8
Once the plaster has dried, the surface is primed with **FLEX-PRIMER** and painted with **ISOMAT ACRYL** or **FLEXCOAT**.

PRODUCTS

- **UNICRET** Mortar for plastering and masonry. Consumption: approx. 15.5 kg/m²/cm of layer thickness
- **UNICRET-FAST** Fast-setting, white, repairing mortar. Consumption: approx. 14.7 kg/m²/cm of layer thickness
- **ADIPLAST** Polymer latex for multiple improvement of mortars
- **ISOMAT ACRYL** High quality acrylic emulsion paint for exterior use. Coverage: approx. 12 m² per liter, per layer
- **FLEXCOAT** High quality, elastic, waterproofing paint. Coverage: 8-12 m² per liter, per layer
- **FLEX-PRIMER** High quality acrylic water-based primer. Coverage: 5-10 m²/kg
- **NANO-SEAL** Highly penetrative emulsion for waterproofing and stabilization of surfaces. Consumption: 0.1-0.2 kg/m²

REPAIR OF DETACHED PLASTER



1
Plaster falling off the wall may be due to its intense corrosion by water.



2
Firstly, all crumbled parts of the plaster are removed with a putty knife.



3
Then, the surface is cleaned of any dust.



4
The surface is primed with **FLEX-PRIMER** or **NANO-SEAL**, in order to be stabilized.



5
After the primer has dried, **DUROCRET**, **DUROCRET-FAST** or **DUROCRET-PLUS** is used. Their preparation requires only the addition of water.



6
The material is applied with a trowel.



7
After the material has slightly dried, it should be rubbed with a sponge-faced float.



8
After **DUROCRET** has dried, the surface is primed with **FLEX-PRIMER** and it can be painted with **ISOMAT ACRYL** or **FLEXCOAT**.

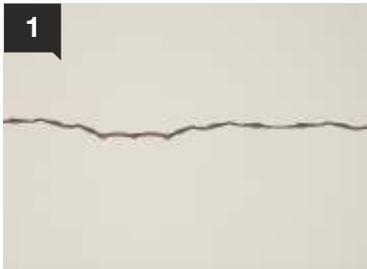
PRODUCTS

- **DUROCRET** Polymer-modified, repairing cement mortar. Consumption: approx. 15 kg/m²/cm of layer thickness
- **DUROCRET-FAST** Fast-setting, repairing cement mortar. Consumption: approx. 17 kg/m²/cm of layer thickness
- **DUROCRET-PLUS** Polymer-modified, fiber-reinforced repairing cement mortar. Consumption: approx. 16 kg/m²/cm of layer thickness
- **ISOMAT ACRYL** High quality acrylic emulsion paint for exterior use. Coverage: approx. 12 m² per liter, per layer
- **FLEXCOAT** High quality, elastic, waterproofing paint. Coverage: 8-12 m² per liter, per layer
- **FLEX-PRIMER** High quality acrylic water-based primer. Coverage: 5-10 m²/kg
- **NANO-SEAL** Highly penetrative emulsion for waterproofing and stabilization of surfaces. Consumption: 0.1-0.2 kg/m²

3. Problem: Masonry repair

The existence of single cracks on plasters, which are present in a height of 30-40 cm below the ceiling, is usually caused by masonry brick movements. Sealing the cracks on the surface would most probably lead to a new crack. A complete solution involves the steps, presented below.

REPAIR OF CRACKED OR DETACHED MASONRY



1
A cracked or detached masonry results in cracks on plaster.



2
Firstly, the plaster is removed to a total width of 30 cm (15 cm on each side) along the entire length of the detachment.



3
Then, the area of the detachment is widened by breaking the surrounding bricks with a sharp tool.



4
The entire area of the detachment is thoroughly cleaned with a brush.



5
Subsequently, the substrate is well dampened.



6
Finally, **DUROCRET**, **DUROCRET-FAST** or **RAPICRET** may fill the widened crack, as deep as possible, using a gauging trowel.



7
After the mortar has hardened, the surface is cleaned of any dust, etc. and is dampened.



8
A first coat of plaster is applied, using **UNICRET** or **UNICRET-FAST**, improved with **ADIPLAST** polymer latex.



9
While the first coat is still fresh, a strip of **fiber-glass mesh** is placed and is slightly pressed onto the first coat.



10
After the first layer has dried, the surface is dampened and the second layer of **UNICRET** or **UNICRET-FAST** is applied.



11
After the plaster has slightly dried, it is rubbed with a sponge faced-float.



12
After the surface has dried, it is primed with **PRIMER CLASSIC**. In the end, it is painted with **ISOMAT CLASSIC**.

PRODUCTS

- **DUROCRET** Polymer-modified, repairing cement mortar. Consumption: approx. 15 kg/m²/cm of layer thickness
- **DUROCRET-FAST** Fast-setting, repairing cement mortar. Consumption: approx. 17 kg/m²/cm of layer thickness
- **RAPICRET** Fast-setting cement patching mortar. Consumption: approx. 17.5 kg/m²/cm of layer thickness
- **UNICRET** Mortar for plastering and masonry. Consumption: approx. 15.5 kg/m²/cm of layer thickness
- **UNICRET-FAST** Fast-setting, white, repairing mortar. Consumption: approx. 14.7 kg/m²/cm of layer thickness
- **ISOMAT CLASSIC** High quality emulsion paint for interior use. Coverage: approx. 12 m² per liter, per layer
- **PRIMER CLASSIC** Acrylic, micronized, water based primer. Coverage: 10-15 m² per liter, per layer
- **FIBER-GLASS MESH** High-strength plaster reinforcement

4. Problem: Reinforced concrete repair

Repairs of concrete elements (smoothing, filling cavities, rusted reinforcement, destroyed parts etc.) need special attention and knowledge, as a wrong choice of materials along with improper application, depending on the severity of the situation, may render the repair ineffective.

SMOOTHENING OF EXPOSED CONCRETE



1 Imperfections on exposed concrete can easily be smoothed with the use of polymer-modified cement putties **PLANFIX** or **PLANFIX-FINE**.



2 Firstly, the surface is cleaned of any dust and is thoroughly dampened.



3 The cement putty is gradually added into water, under continuous stirring, until a uniform pasty putty is formed, proper for stuccoing.



4 The material is applied with a putty knife in one or two layers, depending on the imperfections of the surface. The second layer may be applied, after the first one has dried.



5 After the surface has hardened, it is rubbed with a thin sand paper.



6 Finally, the surface is primed with **PRIMER ACRYL** and painted with **ISOMAT ACRYL**.

PRODUCTS

- **PLANFIX** Polymer-modified cement putty. Consumption: approx. 1.3 kg/m²/mm of layer thickness
- **PLANFIX-FINE** Polymer-modified, extra fine-grained, cement putty. Consumption: approx. 1.3 kg/m²/mm of layer thickness
- **ISOMAT ACRYL** High quality acrylic emulsion paint for exterior use. Coverage: approx. 12 m² per liter, per layer
- **PRIMER ACRYL** Silicone acrylic micronized water based primer. Coverage: 10-15 m² per liter, per layer

REPAIR OF CAVITIES ON CONCRETE



1 The appearance of cavities on concrete is a rather common phenomenon.



2 Firstly, the surface is cleaned of any loose particles, by mechanical means.



3 Then, it is cleaned of any dust with the use of a hard brush.



4 Subsequently, the surface is thoroughly dampened.



5 The cavity is filled with **DUROCRET**. The material is applied by pressure with a trowel.



6 If fast work is required, **DUROCRET-FAST** or **RAPICRET** can be used instead of **DUROCRET**.

PRODUCTS

- **DUROCRET** Polymer-modified, repairing cement mortar. Consumption: approx. 15 kg/m²/cm of layer thickness
- **DUROCRET-FAST** Fast-setting, repairing cement mortar. Consumption: approx. 17 kg/m²/cm of layer thickness
- **RAPICRET** Fast-setting cement patching mortar. Consumption: approx. 17.5 kg/m²/cm of layer thickness

REPAIR OF PEELED CONCRETE AND STEEL REINFORCEMENT PROTECTION



The corrosion in reinforcement, which has led to the detachment of concrete parts, endangers the whole structure.



Initially, all broken and loose particles of the peeled concrete should be removed thoroughly, and the corroded steel reinforcement should be completely uncovered.



Subsequently, the corroded steel is cleaned and scrubbed, ground etc. with an appropriate tool in order for the rust to be completely removed.



Next, the surface is thoroughly cleaned of any dust.



FERROSEAL is applied with a brush in two layers. Its preparation requires only the addition of water.



The second layer is applied after the first one has dried.



After **FERROSEAL** has dried, the surface is dampened thoroughly.



The peeled area of the concrete is repaired with the application of **MEGACRET-40**. Its preparation requires only the addition of water.



The material is applied by pressure with a trowel.



The final surface should be well protected from dehydration for 48 hours, e.g. repeating dampening.



If fast work is required, **MEGACRET-40 FAST**, **MEGACRET-40 GEO** or **MEGACRET-50 THIXO** may be used instead of **MEGACRET-40**.



After the material has hardened, the surface is plastered and painted.

PRODUCTS

- **FERROSEAL** Cement-based, anti-corrosive coating for reinforcement elements - Bonding agent. Consumption: 0.07-0.13 kg/m of reinforcement element
- **MEGACRET-40** High-strength fiber-reinforced repairing cement mortar. Consumption: approx. 17.5 kg/m²/cm of layer thickness
- **MEGACRET-40 FAST** Fast-setting, fiber-reinforced, high-strength cementitious repairing mortar. Consumption: approx. 17.5 kg/m²/cm of layer thickness
- **MEGACRET-40 GEO** High-strength, eco-friendly repairing geo-mortar. Consumption: approx. 17 kg/m²/cm of layer thickness
- **MEGACRET-50 THIXO** High-strength, fiber-reinforced, thixotropic repairing cement mortar. Consumption: approx. 19 kg/m²/cm of layer thickness

5. Problem: Minor repairs

Minor repairs are not required only in old structures, which may demand maintenance, but also in new ones, due to wrong choice of materials or bad application. Below are some of the most common problems that can appear in a structure.

REPAIR OF CRACKS BETWEEN DOOR FRAME AND WALL



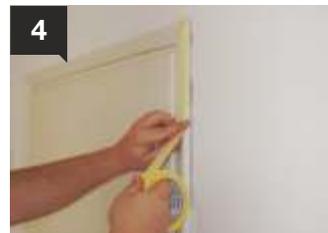
1
The wrong choice of materials for sealing the joint between the door frame and the wall, has led to the appearance of cracks.



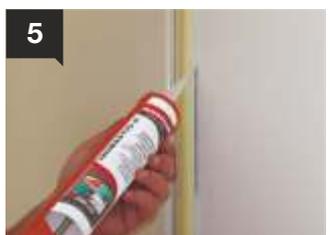
2
Firstly, the crack is widened to a width of 3 mm.



3
The surface is thoroughly cleaned of dust.



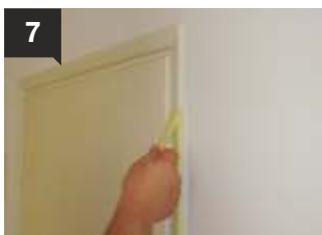
4
The use of paper adhesive tape is necessary in order to prevent any smear of the door frame.



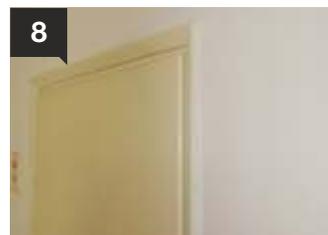
5
The crack is sealed with the acrylic mastic **ISOMASTIC-A**.



6
The acrylic sealant is smoothed, while it is still fresh.



7
Right afterwards, the paper tape is removed with caution.



8
After **ISOMASTIC-A** has dried, the area of the crack is painted alongside.

PRODUCTS

- **ISOMASTIC-A** Elastoplastic acrylic mastic

REPAIR OF RUSTY METAL RAILINGS



1
The influence of water resulted in the rusting of the base of the railing, a situation that needs to be confronted immediately, as it makes the whole construction dangerous.



2
Firstly, the joint between the marbles is thoroughly cleaned with a sharp tool. The base of the railing is cleaned of any rust and checked to see if the metal is completely destroyed.



4
If the railing is not destroyed from the rust and its replacement is not necessary, it is primed with **ISOLAC RUST PRIMER**.



5
FLEX-COVER is prepared: A-component is added into B-component under continuous stirring.



6
The surface is slightly dampened and **FLEX-COVER** is applied on the joint with a putty knife.



7
Finally, after **FLEX-COVER** has dried, the railing is painted with **ISOLAC DUCO**.

PRODUCTS

- **FLEX-COVER** Two-component, flexible putty. Consumption for sealing joint of 5 mm x 5 mm: 40 g/m of joint length
- **ISOLAC DUCO** High-gloss, extra tough enamel paint for metal surfaces. Coverage: approx. 15 m² per liter, per layer
- **ISOLAC RUST PRIMER** Anti-rust primer for metal surfaces. Coverage: approx. 13 m² per liter, per layer

FIXING OF DETACHED RIDGES



The detachment of ridges is a problem that usually occurs when their fixing is made using a low quality cement mortar.



Firstly, the surface is cleaned of any loose materials or dust.



Subsequently, the surface is well dampened.



DUROCRET (red-brown color) is added into water under continuous stirring, until a mixture of the desired workability is formed.



DUROCRET is applied with a trowel as usual where the ridge must be placed.



Subsequently, the ridge is fixed and leveled using a thread.



Finally, any **DUROCRET** leftovers are removed and the surface is well smoothed.



The use of **DUROCRET** in red-brown color improves the appearance of the roof.

PRODUCTS

- **DUROCRET** Polymer-modified, repairing cement mortar. Consumption: approx. 15 kg/m²/cm of layer thickness

FIXING OF STAIR RAILS TO WALL



Fixing rails into the wall is an application that requires speed and great stability.



Firstly, the surface is cleaned of any dust, etc.



Subsequently, the surface is thoroughly dampened.



RAPICRET is added into water under continuous stirring, until a mixture of the desired workability is formed.



The material is applied by pressure using a trowel, as usual.



Subsequently, the surface is smoothed with a moist brush.



RAPICRET starts to harden after 15 min. and the rail is almost stabilized.



The next day, the surface is ready to be painted with **ISOMAT CLASSIC**.

PRODUCTS

- **RAPICRET** Fast-setting cement patching mortar. Consumption: approx. 17.5 kg/m²/cm of layer thickness
- **ISOMAT CLASSIC** High quality emulsion paint for interior use. Coverage: approx. 12 m² per liter, per layer

6. Problem: Interior space renovation

The renovation of a room will probably include a range of repairs, from minor to large scale ones. Presented below are a few common, minor problems, which can be tackled fast and easily, as long as the appropriate materials have been chosen.

PUTTYING AND PAINTING OF SURFACES



1
Small imperfections on plaster (e.g. cracks, breaks) are very common and can be repaired relatively quickly.



2
Firstly, the surface is cleaned of any loose materials, etc.



3
Subsequently, it is cleaned of any dust.



4
FAST-COVER is applied with a putty knife at the desired spot and is pressed to completely fill the gap.



5
The surface is smoothed out immediately with a putty knife.



6
After the repaired surface has dried (in approx. 30 minutes), it can be painted with **ISOMAT CLASSIC**.

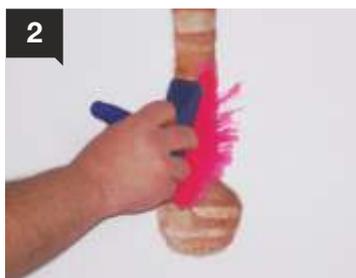
PRODUCTS

- **FAST-COVER** Ready-to-use, lightweight acrylic spackling putty
- **ISOMAT CLASSIC** High quality emulsion paint for interior use. Coverage: approx. 12 m² per liter, per layer

RELOCATION OF ELECTRICAL INSTALLATIONS



1
Changing use of a room, normally leads to the relocation of the electrical installations.



2
Firstly, the electric channel (path) is cleaned of any dust and the wire holder is placed.



3
Subsequently, the surface is slightly dampened.



4
The product used is **UNICRET-FAST**. Its preparation requires only the addition of water.



5
After the plaster has slightly dried (approx. after 45 minutes), it is rubbed with a sponge-faced float.



6
Finally, when the surface has dried (approx. after 3 hours), it can be painted with **ISOMAT CLASSIC**.

PRODUCTS

- **UNICRET-FAST** Fast-setting, white, repairing mortar. Consumption: approx. 14.7 kg/m²/cm of layer thickness
- **ISOMAT CLASSIC** High quality emulsion paint for interior use. Coverage: approx. 12 m² per liter, per layer

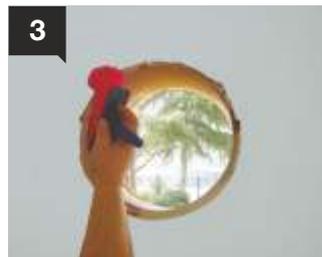
REPAIR OF OPENINGS IN WALLS



1 During the renovation of a space, the dismantlement of some old installations may be necessary.



2 Firstly, the surface is cleaned of any dust, etc.



3 Subsequently, the repaired area is primed, using the ready-to-use primer **PL-BOND**.



4 After the primer has dried, the bricks are built using **UNICRET** or **UNICRET-FAST**.



5 **UNICRET** or **UNICRET-FAST** is improved with **ADIPLAST** polymer latex.



6 The surface is dampened and the plaster is applied with a trowel.



7 After the plaster has slightly dried, it is rubbed with a sponge-faced float.



8 Once the plaster has fully dried, the surface is painted with **ISOMAT CLASSIC**.

PRODUCTS

- **UNICRET** Mortar for plastering and masonry. Consumption: approx. 15.5 kg/m²/cm of layer thickness
- **UNICRET-FAST** Fast-setting, white, repairing mortar. Consumption: approx. 14.7 kg/m²/cm of layer thickness
- **ISOMAT CLASSIC** High quality emulsion paint for interior use. Coverage: approx. 12 m² per liter, per layer
- **ADIPLAST** Polymer latex for multiple improvement of mortars
- **PL-BOND** Plaster adhesion primer. Consumption: 0.3-0.35 kg/m²

PUTTYING OF WALLS



1 The creation of smoothed surfaces in interior spaces is a very common demand in new buildings.



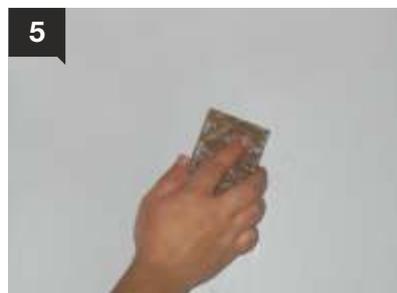
2 Firstly, the surface of the plaster is cleaned of any dust, etc. No priming or preparation using oil is needed before the application.



3 The content of **STUCCOCRET** is added to water under continuous stirring until a uniform mixture of the desired workability is formed. *



4 The mixture is applied with a putty knife in two layers. The second layer may be applied after the first one has dried (after 2-3 hours).



5 After the material has hardened (in approx. 12 hours), the surface is ground.



6 Finally, the surface is primed with **PRIMER CLASSIC** and painted with **ISOMAT CLASSIC**.

* **STUCCOCRET-PLUS** can be used instead of **STUCCOCRET**.

PRODUCTS

- **STUCCOCRET** Spatula putty. Consumption: approx. 1.1 kg/m²/mm of layer thickness
- **STUCCOCRET-PLUS** Polymer-modified spatula putty. Consumption: approx. 0.9 kg/m²/mm of layer thickness
- **ISOMAT CLASSIC** High quality emulsion paint for interior use. Coverage: approx. 12 m² per liter, per layer
- **PRIMER CLASSIC** Acrylic, micronized, water based primer. Coverage: 10-15 m² per liter, per layer

7. Problem: Tile fixing

The latest tendency is for tiles to substitute the rest of the floor and wall coatings. Presented below are some particular cases of applications, which can cause problems to the construction, if not tackled properly.

FIXING NEW TILES ON OLD TILE LAYERS



1 The wrong choice of tiles has caused their damage. Thus, a new layer of tiles is necessary.



2 Firstly, the surface is cleaned of any dust, etc.



3 **ISOMAT AK 22** is gradually added into water under continuous stirring, until a uniform paste is formed. The mixture should be left for about 10 minutes to settle, before it is slightly stirred again. *



4 The tile adhesive should be spread (combed) on the substrate with a notched trowel, in order to be uniformly applied on the whole surface.



5 Then, the tiles should be pressure-fixed at the desired position by keeping them stable and locating crosses for grouting.



7 Finally, using a bubble level and a rubber hammer we make sure they are properly positioned.



8 After the surface becomes walkable, we grout the tiles either with **MULTIFILL 3-15**, enriched with resin **DS-99**, or with **MULTIFILL SMALTO 1-8**.



9 The grout is spread onto the joints, using a rubber float in a diagonal direction to the joints, in order to fill them completely.



10 After the grout has absorbed enough quantity, the excess material should be wiped after a while, using a slightly wet sponge.



11 Finally, the surface may be cleaned with a slightly wet cloth after the tile grout has completely dried.



12 Fixing new tiles on old tiles becomes easy without having to remove the old tile layer.

* **ISOMAT AK 25** can be used instead of **ISOMAT AK 22**.

PRODUCTS

- **ISOMAT AK 22** High performance, flexible, polymer-modified tile adhesive. Consumption: 1.5-4.0 kg/m²
- **ISOMAT AK 25** High performance, elastic, polymer-modified tile adhesive. Consumption: 1.5-4.0 kg/m²
- **MULTIFILL 3-15** Colored tile grout for joint width 3-15 mm
- **MULTIFILL SMALTO 1-8** Water-repellent tile grout of porcelain texture, for joint width 1-8 mm
- **DS-99** Additive for tile adhesives and joint grouts

FIXING TILES ON WOOD AND GYPSUM BOARD



Fixing tiles on wood and gypsum board is a very common application today.



Firstly, the surface is cleaned of any dust and primed with **UNI-PRIMER**.



ISOMAT AK-ELASTIC is prepared by adding A-component to B-component under continuous stirring.*



After **UNI-PRIMER** has dried, the tile adhesive is "combed" on the substrate with a notched trowel.



The tiles should then be pressure-fixed at the desired position.



Finally, using a bubble level and a rubber hammer we make sure they are properly leveled.



After the tile adhesive has dried, the tiles are grouted with **MULTIFILL SMALTO 1-8**.

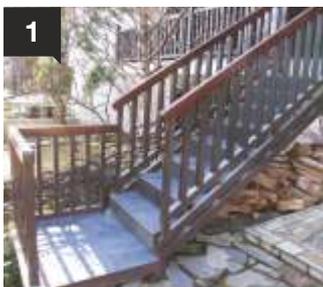


* **ISOMAT AK 25** can be used instead of **ISOMAT AK-ELASTIC**.

PRODUCTS

- **ISOMAT AK-ELASTIC** High performance, two-component elastic tile adhesive. Consumption: 1.5-4.0 kg/m²
- **ISOMAT AK 25** High performance, elastic, polymer-modified tile adhesive. Consumption: 1.5-4.0 kg/m²
- **MULTIFILL SMALTO 1-8** Water-repellent tile grout of porcelain texture, for joint width 1-8 mm
- **UNI-PRIMER** Acrylic water-based primer. Consumption: 0.1-0.2 kg/m²

FIXING TILES ON METAL SURFACES



Metal surfaces comprise a difficult substrate for fixing tiles.



Firstly, the surface is cleaned of any dust, rust, etc.



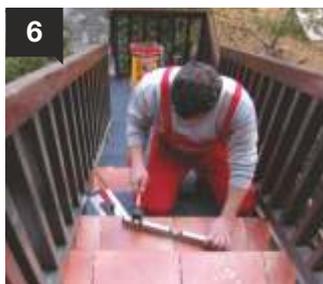
ISOMAT AK-ELASTIC is prepared by adding A-component to B-component under continuous stirring.



The tile adhesive should be "combed" on the substrate with a notched trowel, so as to be uniformly applied on the surface.



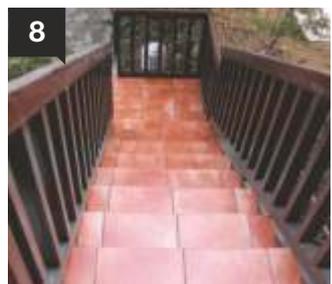
The tiles should then be pressure-fixed at the desired position.



Finally, using a bubble level and a rubber hammer we make sure they are properly leveled.



After the tile adhesive has dried, the tiles are grouted with **MULTIFILL SMALTO 1-8**.



PRODUCTS

- **ISOMAT AK-ELASTIC** High performance, two-component elastic tile adhesive. Consumption: 1.5-4.0 kg/m²
- **MULTIFILL SMALTO 1-8** Water-repellent tile grout of porcelain texture, for joint width 1-8 mm

8. Problem: Leveling and smoothing of floors

Floor filling (including covering water or heating pipes, dismantling old wooden floors and leveling or creating a sloped roof) and smoothing (fixing tiles, moquettes, plastic or wooden floors) are constantly required in both old structures - in need of renovation - and new ones.

REPAIRING UNEVEN SURFACES OR INCLINATIONS USING FLOOR LEVELING CEMENT MORTAR



1
Dismantlement of old wood floors and leveling in order to fix tiles, leads to height differences in comparison with other floors.



2
Firstly, the surface is cleaned of any dust, oils, loose materials, etc. and an elongated beam is used for leveling.



3
Then, the substrate surface must be well dampened, but without creating water puddles.



4
For thin application layers (up to 3-4 cm) a bonding layer of **ADIPLAST** mixed with water, cement and sand is required. Alternatively, **FERROSEAL** can be applied instead.



5
SCREED-100 is added into water under continuous stirring, until a homogeneous mass is formed.



6
The laying procedure of **SCREED-100** is the same as for concrete up to 10 cm thickness.

PRODUCTS

- **SCREED-100** Floor leveling cement mortar. Consumption: approx. 14 kg/m²/cm of layer thickness
- **ADIPLAST** Polymer latex for multiple improvement of mortars
- **FERROSEAL** Cement-based anticorrosive coating for reinforcement elements - Bonding agent. Consumption: approx. 2 kg/m²

LEVELING AND SMOOTHING OF UNEVEN SURFACES USING SELF-LEVELING CEMENTITIOUS SCREED



1
The surface of concrete floors is usually uneven, making it difficult to fix tiles, carpet, plastic flooring, etc.



2
Firstly, the surface is cleaned of any dust, oils, loose materials, etc.



3
Subsequently, the surface is primed with **UNI-PRIMER**.

After the primer has dried, **FLOWCRET 1-10** can be applied. The material is added to water under continuous stirring, until a homogeneous mass is formed. In case it is desirable for the floor to be walkable after 3 hours or to be covered within 24 hours, it is recommended to use **FLOWCRET 1-10 EXPRESS**. Alternatively, for floor thickness from 3 mm up to 30 mm, it is recommended to use **FLOWCRET 3-30 EXPRESS**.



5
The **FLOWCRET 1-10** mixture should be spread in a single layer, with the aid of a large spatula, in a thickness of up to 10 mm. After the **FLOWCRET 1-10** has dried, it can be covered with various floorings such as tiles, carpet, plastic flooring, etc.



6
The finished floor surface is shown, ready for covering with various floorings.

PRODUCTS

- **FLOWCRET 1-10** Self-leveling, polymer-modified, cementitious flooring mortar. Consumption: approx. 1.65 kg/m²/mm of layer thickness
- **FLOWCRET 1-10 EXPRESS** Fast-setting, self-leveling, polymer-modified, cementitious screed. Consumption: approx. 1.65 kg/m²/mm of layer thickness
- **FLOWCRET 3-30 EXPRESS** Fast-setting, self-leveling, polymer-modified compound. Consumption: approx. 1.65 kg/m²/mm of layer thickness
- **UNI-PRIMER** Acrylic, water-based primer. Consumption: 0.1-0.2 kg/m²

9. Problem: Surface cleaning

Cement residue (cement grouts, plasters, cement dirt, lime dirt, etc.) which has dried on surfaces of ceramic tiles, natural stones, and unpolished marbles has to be cleaned with special cleaning liquids and not by mechanical means, as this procedure may cause some serious problems to the surface. Surfaces which have been impregnated with oils, grease, etc. can also be cleaned with special cleaning liquids.

CLEANING FLOORS FROM CEMENT RESIDUE



1
Tiles, old mosaics, unpolished marbles etc., with cement residue, can be easily cleaned with **CL-CLEAN**.



2
CL-CLEAN is spread on the surface to be cleaned as it is or diluted with water, up to 1:1.



3
On vertical surfaces, it is applied with a brush.



4
The liquid should be left to act for 2-3 minutes and then the surface should be brushed with a hard (non metallic) brush.



5
The surface should be washed with plenty of water.



6
In difficult cases, it might be necessary to repeat the procedure.

PRODUCTS

- **CL-CLEAN** Tile and natural stone cleaner. Consumption: 0.15-0.2 kg/m², depending on the case

CLEANING FLOORS FROM OILS



1
Floors which have been impregnated with oils is a common phenomenon in garages, food industries, etc.



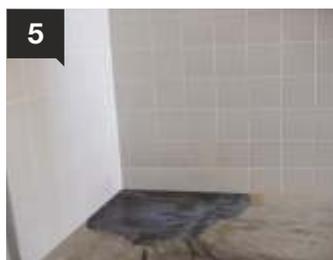
2
Firstly, the floor surface is cleaned of superficial dirt by using high pressure and high temperature water blasting.



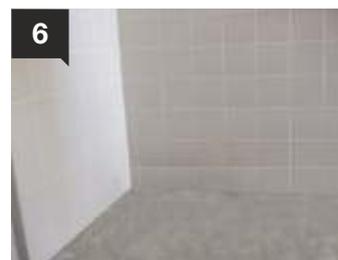
3
After the surface is cleaned, **FD-CLEAN** is spread on the floor.



4
Subsequently, the surface is meticulously rubbed with a hard wire-brush in order to penetrate the substrate pores.



5
Leave **FD-CLEAN** at least 30 minutes to emulsify the oils. The change of color shows that the chemical reaction has begun.



6
Finally, the emulsified oil is removed by high pressure and high temperature water blasting. In difficult cases, it might be necessary to repeat the procedure.

PRODUCTS

- **FD-CLEAN** Oil and grease remover from concrete floors. Consumption: 0.8-1.0 kg/m², depending on the absorptivity and the burdening of the surface

10. Problem: Surface protection

With a few simple and easy steps, the appearance and endurance of certain coatings (stones, marbles, painted surfaces, decorative coatings etc.) can be enhanced.

WALL PROTECTION FROM GRAFFITI



1
Before the application of **ISOMAT AG 80-2K**, the substrate is cleaned of any dust etc. **ISOMAT AG 77** can be used as well instead of **ISOMAT AG 80-2K**.



2
The material is then applied in 2 layers. The second layer is applied after the first one has dried.



3
Cleaning a surface from graffiti is easy, if it has been treated previously with **ISOMAT AG 80-2K**.



4
The surface is cleaned by using hot water under pressure or rubbing with a sponge, soaked with **ISOMAT GRAFFITI REMOVER**.



5a
After cleaning, the surface that was treated with **ISOMAT AG 80-2K** remains protected.



5b
In case of using **ISOMAT AG 77**, the product has to be applied again in 1-2 layers.

PRODUCTS

- **ISOMAT AG 80-2K** Transparent varnish for protecting surfaces from graffiti. Consumption: 70-120 g/m² per layer, depending on the absorptivity of the substrate
- **ISOMAT AG 77** Anti-graffiti, protection emulsion. Consumption: 50-100 ml/m², depending on the absorptivity of the surface
- **ISOMAT GRAFFITI REMOVER** Special cleaner for removing graffiti marks. Consumption: Depends on the graffiti type and the absorptivity of the surface

PROTECTION OF UNPOLISHED MARBLES



1
Stains that have impregnated into marbles are rather difficult to remove. Thus, proactive protection is critical in order to avoid such situations.



2
NANOPRO-M is poured onto the cleaned surface and is applied with a squeegee. Alternatively, **PS-21** can be used instead of **NANOPRO-M**.



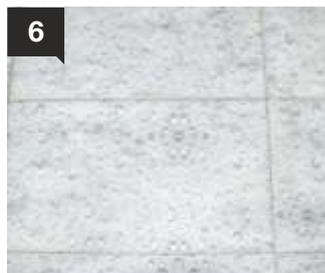
3
The material is left to act for 5 minutes and then the excessive material is removed with a squeegee.



4
Then the surface is cleaned with a slightly wet cloth.



5
The final cleaning of the surface can be done after 6 hours.



6
NANOPRO-M has impregnated into the pores of the marble without altering its appearance.

PRODUCTS

- **NANOPRO-M** Nano-impregnation for protecting marbles. Consumption: 50-70 ml/m², depending on the absorptivity of the surface
- **PS-21** Siloxane-based solution without solvents for waterproofing. Consumption: 0.2-0.4 lit/m², depending on the absorptivity of the surface

PROTECTION OF WALLS MADE OF NATURAL OR ARTIFICIAL STONES

Waterproofing of walls, which are made of or are decorated with natural stones (shale, tufa, etc.) or coatings, prevents the appearance of white stains (salt) on them, while it also protects them from frost and pollution. Presented below are two different ways of dealing with the same problem:

1) Waterproofing with the transparent water-repellent impregnation **PS-20** and 2) waterproofing with the acrylic stone varnish **VS-1**.

1st Solution: Waterproofing surfaces with the transparent water-repellent solution PS-20



1

If altering the appearance of the surface is not desirable, then the ideal solution for its waterproofing is **PS-20**.



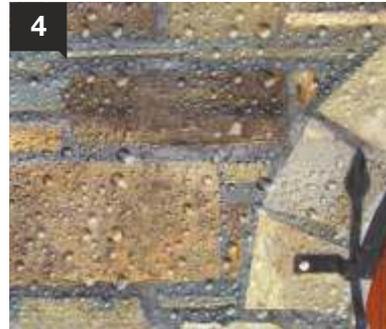
2

Firstly, the surface where **PS-20** is going to be applied, should be clean, dry and have open pores.



3

PS-20 is applied with a brush, roller or spray in two layers. The second layer is applied once the first layer has completely dried.



4

PS-20 impregnates into the pores of the surface and protects it from rain water absorption without altering its appearance. Alternatively, **NANOPRO-C** can be used instead of **PS-20**.

PRODUCTS

- **PS-20** Siloxane-based solution for waterproofing. Consumption: 0.2-0.4 lit/m², depending on the absorptivity of the surface
- **NANOPRO-C** Nano-impregnation for protecting porous surfaces. Consumption: 100-200 ml/m², depending on the absorptivity of the surface

2nd Solution: Brightening-up and protecting surfaces with the acrylic stone varnish VS-1



1

VS-1 brings out the natural color of the material on which it is applied, protecting at the same time the surfaces from rainwater.



2

Firstly, the surface where **VS-1** is going to be applied should be clean, dry and have open pores.



3

VS-1 is applied with a brush, roller or spray in two layers. The second layer is applied once the first layer has completely dried.



4

VS-1 impregnates into the pores of the surface and simultaneously brightens up its natural color. Alternatively, **VARNISH-PU 2K** can be used instead of **VS-1**.

PRODUCTS

- **VS-1** Acrylic stone varnish. Consumption: 150-200 ml/m² per layer, depending on the absorptivity of the surface
- **VARNISH-PU 2K** Polyurethane, transparent two-component, protective varnish. Consumption: 70-120 g/m² per layer, depending on the absorptivity of the surface.

REPAIRING MORTARS



UNICRET

Mortar for plastering and masonry

Classified as GP CS II, W0 mortar, according to EN 998-1.

Color: White, grey.

Consumption: Approx. 15.5 kg/m²/cm of layer thickness.

Packaging: Bags of 25 kg.



DUROCRET-PLUS

Polymer-modified, fiber-reinforced repairing cement mortar

Suitable for patching and repairing concrete, masonry and render, forming fillets, ridge tiles on roofs etc. Classified as PCC R3 mortar for concrete repairs, according to EN 1504-3.

Color: Grey.

Consumption: Approx. 16 kg/m²/cm of layer thickness.

Packaging: Bags of 5 kg and 25kg.



UNICRET-FAST

Fast-setting, white, repairing mortar

Ideal for quick plaster repairs in old and new constructions.

Replaces the use of gypsum in respective applications.

Classified as GP CS II, W0 mortar, according to EN 998-1.

Color: White.

Consumption: Approx. 14.7 kg/m²/cm of layer thickness.

Packaging: Bags of 5 kg and 25 kg.



MEGACRET-40

High-strength fiber-reinforced repairing cement mortar

Suitable for highly demanding repairs of concrete elements.

It is applied in layers up to 4 cm thick (per layer), by trowel or guniting machine. Classified as CC R4 mortar for concrete repairs, according to EN 1504-3.

Color: Grey.

Consumption: Approx. 17.5 kg/m²/cm of layer thickness.

Packaging: Bags of 5 kg and 25 kg.



RAPICRET

Fast-setting cement patching mortar

Ideal for patching and repairing concrete elements, fixing, anchoring, cavity sealing, formation of grooves etc. and generally when considerable strength and fast work are needed. Classified as PCC R3 mortar for concrete repairs, according to EN 1504-3.

Color: Grey.

Consumption: Approx. 17.5 kg/m²/cm of layer thickness.

Packaging: Bags of 5 kg and 25 kg.



FERROSEAL

Cement-based anticorrosive coating for reinforcement elements - Bonding agent

Polymer-modified brushable cement mortar used for protecting reinforcement elements from corrosion and for creating the bonding layer between old and new concrete or mortar.

Color: Redbrown.

Consumption: As anticorrosive coating: 0.07-0.13 kg/m of reinforcement element. As bonding agent: approx. 2.0 kg/m².

Packaging: Containers of 1 kg, 5 kg and 15 kg.



MEGACRET-40 FAST

Fast-setting, fiber-reinforced, high-strength cementitious repairing mortar

Suitable for fast repairs on concrete elements. It is applied in layers up to 4 cm thick (per layer), by trowel or guniting machine. Classified as CC R4 mortar for concrete repairs, according to EN 1504-3.

Color: Grey.

Consumption: Approx. 17.5 kg/m²/cm of layer thickness.

Packaging: Bags of 25 kg.



DUROCRET

Polymer-modified, repairing cement mortar

Suitable for patching and repairing concrete, masonry and plaster, formation of grooves or ridgepoles etc. Classified as PCC R2 mortar for concrete repairs, according to EN 1504-3.

Color: Grey, white, redbrown.

Consumption: Approx. 15 kg/m²/cm of layer thickness.

Packaging: Bags of 5 kg and 25 kg.



MEGACRET-40 GEO

High-strength, eco-friendly repairing geo-mortar

Used for highly demanding concrete repairs. Eco-friendly, enriched with natural binders and minimum synthetic polymers. Classified as PCC R4 mortar for concrete repairs, according to EN 1504-3.

Color: Grey.

Consumption: Approx. 17 kg/m²/cm of layer thickness.

Packaging: Bags of 5 kg and 25kg.



DUROCRET-FAST

Fast-setting, repairing cement mortar

Suitable for repairs on concrete, cement mortars, masonry, plasters and generally wherever high strength and fast application is necessary. Classified as PCC R2 mortar for concrete repairs, according to EN 1504-3.

Color: Grey.

Consumption: Approx. 17 kg/m²/cm of layer thickness.

Packaging: Bags of 25 kg.



MEGACRET-50 THIXO

High-strength, fiber-reinforced, thixotropic repairing cement mortar

Suitable for highly demanding repairs in concrete elements.

Provides superior strength, very good bonding to the substrate, reduced water permeability and volume stability. Classified as a PCC R4 mortar for concrete repairs, according to EN 1504-3.

Color: Grey.

Consumption: Approx. 19 kg/m²/cm of layer thickness.

Packaging: Bags of 25kg.

MORTARS FOR LEVELING & FILLING FLOORS



FLOWCRET 1-10

Self-leveling, polymer-modified cementitious screed

Suitable for smoothing and leveling concrete or mortar floors, before laying finishing materials like carpet, parquet layers, tiles etc. Recommended thickness 1-10 mm. Classified as CT-C30-F10-AR1, according to EN 13813.

Color: Grey.

Consumption: Approx. 1.65 kg/m²/mm of layer thickness.

Packaging: Bags of 25 kg.



FLOWCRET 1-10 EXPRESS

Fast-setting, self-leveling, polymer-modified cementitious screed

Ideal for fast smoothing and leveling of concrete or mortar floors that are going to be covered with all kinds of tiles, carpet, parquet, vinyl tiles etc. Recommended thickness 1-10 mm. Ideal for quick repairs, as it is walkable after 4 h and can be covered after 24 h. Classified as a screed material CT-C30-F7-AR4 (grey) and CT-C30-F7-AR6 (white), according to EN 13813.

Color: White, grey.

Consumption: Approx. 1.65 kg/m²/mm of layer thickness.

Packaging: Bags of 25 kg.



SCREED-100

Floor leveling cement mortar

Ideal for filling and leveling floors to be covered with tiles, marble, parquet etc., as well as for forming slopes on terraces. It replaces non-reinforced concrete or gas-concrete. Recommended thickness up to 10 cm. Classified as CT-C7-F3-A12, according to EN 13813.

Color: Grey.

Consumption: Approx. 14 kg/m²/cm of layer thickness.

Packaging: Bags of 25 kg.



FLOWCRET 3-30 EXPRESS

Fast-setting, self-leveling, polymer-modified compound

Suitable for smoothing and leveling of concrete or mortar surfaces before laying finishing materials like tiles, carpets, parquet, vinyl tiles, marbles etc. Recommended thickness 3-30 mm. Ideal for quick repairs, as it can be walkable after 4 hours. Can be covered after 24 hours. Classified as CT-C40-F10-AR2, according to EN 13813.

Color: Grey.

Consumption: Approx. 1.65 kg/m²/mm of layer thickness.

Packaging: Bags of 25 kg.

PAINTS & PROTECTIVE MATERIALS



ISOMAT CLASSIC

Premium emulsion paint for interior use

Characterized by excellent surface coverage and workability as well as superb resistance to frequent washing and ageing. Provides strong adhesion to any kind of old or new substrate like plaster, concrete, gypsum boards etc. Forms a final surface with an excellent mat finish. Ammonia free.

Color: White and 1950 selected (ISOMAT COLOR SYSTEM).

Coverage: Approx. 12 m² per liter, per layer.

Packaging: Plastic buckets of 0.75 lit, 3 lit and 10 lit in white and 1 lit, 3 lit and 10 lit colored.



ISOMAT ACRYL

Premium acrylic emulsion paint for exterior use

Characterized by high water-repellency, excellent surface coverage and durability in harsh weather conditions and ageing. It is also vapor permeable allowing the building to breathe.

Provides strong adhesion to any kind of old or new substrate like plaster, concrete, wood etc. It has excellent workability and dries quickly. Forms a final surface with an excellent mat finish.

Certified as cool paint.

Color: White and 1950 selected (ISOMAT COLOR SYSTEM).

Coverage: Approx. 12 m² per liter, per layer.

Packaging: Plastic buckets of 0.75 lit, 3 lit and 10 lit in white and 1 lit, 3 lit and 10 lit colored.



FLEXCOAT

Premium, elastic, waterproofing paint

Suitable for painting and waterproofing walls, protecting of bituminous layers, coloring and waterproofing asbestos-cement roofs etc. For exterior and interior use.

Color: White and 1371 selected (ISOMAT COLOR SYSTEM).

Coverage: 8-12 m² per liter, per layer.

Packaging: Plastic buckets of 3 lit and 10 lit.



ISOLAC DUCO

High-gloss, extra tough enamel paint for metal surfaces

Premium quality enamel paint for metal surfaces. Suitable for both indoor and outdoor use. ISOLAC DUCO is characterized by high hardness, glossiness and coverage. It has excellent resistance to weather and ageing. It dries fast and offers a highly wearresistant surface. Used for indoor or outdoor applications, on new or old metal surfaces such as doors, railings, machinery and tools.

Color: White, black and 12 additional standard colors (0.375 lit package), as well as colors from ISOMAT COLOR SYSTEM and RAL (0.75 lit & 2.5 lit packages). **Coverage:** Approx. 15 m² per liter, per layer.

Packaging: Cans of 0.375 lit, 0.75 lit and 2.5 lit.



NANO-SEAL

Highly penetrative emulsion for waterproofing and stabilization of surfaces

Used for protection of porous substrates against moisture and salt stains, such as concrete, masonry, plaster, gypsum boards, chip boards, natural stone etc. It has also the ability to harden weak substrates, such as plasters etc. Suitable for indoor and outdoor application.

Color: Light blue.

Consumption: 0.1-0.2 kg/m², depending on the absorptivity of the surface.

Packaging: Plastic containers of 1 kg, 5 kg and 20 kg.



ISOLAC RUST PRIMER

Anti-rust primer for metal surfaces

Suitable for both indoor and outdoor use. Offers excellent adhesion and efficiently protects metal surfaces from rust. Used on new or old metal surfaces such as doors, railings, machinery and tools and constitutes the ideal substrate for the enamel paint ISOLAC DUCO.

Color: White, grey, brown.

Coverage: Approx. 13 m² per liter, per layer.

Packaging: Cans of 0.75 lit and 2.5 lit.



ISOMAT AG 77

Anti-graffiti protection emulsion

Protects surfaces against sprays or paint graffiti, environmental impurities etc. Permitting easy cleaning of the surface, without affecting their structure appearance.

Color: White (transparent after drying).

Consumption: 50-100 ml/m², depending on the absorptivity of the surface.

Packaging: Plastic buckets of 1 lit and 3 lit.



PS-20

Siloxane-based solution for waterproofing

Ensures extremely high water-repellence and long term protection. It can be applied on various surfaces for their protection against rain effect. Suitable also for waterproofing of tile joints. CE certified as a hydrophobic impregnation, according to EN 1504-2.

Color: Transparent.

Consumption: 0.2-0.4 lit/m², depending on the absorptivity of the surface.

Packaging: Cans of 1 lit, 3 lit and 20 lit.



ISOMAT AG 80-2K

Transparent varnish for protecting surfaces from graffiti

It forms a membrane which does not allow the graffiti paint (spray, markers) to penetrate into the substrate and thus makes cleaning easy. The membrane formed is waterproof, unaffected by UV radiation, does not turn yellow and offers very good mechanical and chemical resistance. The surface remains protected even after cleaning, so the is no need to re-apply the product.

Color: Transparent (glossy).

Consumption: 70-120 g/m² per layer, depending on the absorptivity of the substrate.

Packaging: Cans of 1 kg and 5 kg.



NANOPRO-C

Nano-impregnation for protecting porous surfaces

Water-based emulsion with high penetrating ability, based on nano-molecular structure. Ideal for protecting against moisture and salt stains porous substrates such as surfaces of concrete, masonry, plaster, tile grouts, natural stones etc. Suitable for indoor and outdoor application. CE certified as a hydrophobic impregnation, according to EN 1504-2.

Color: White (transparent after drying).

Consumption: 0.1-0.2 lit/m², depending on the absorptivity of the surface.

Packaging: Plastic containers of 1 lit, 5 lit and 20 lit.



ISOMAT GRAFFITI REMOVER

Special cleaner for removing graffiti marks

It is a strong cleaning agent for removing graffiti marks from spray, markers, etc. Used to clean several surfaces, such as metal, glass, marble, stone, concrete, exposed masonry, etc. It can be used on painted surfaces as well, after being tested.

Color: Transparent.

Consumption: Depends on the graffiti type and the absorptivity of the surface.

Packaging: Cans of 0.7 lit and 4 lit.



NANOPRO-M

Nano-impregnation for protecting marbles

Water-based emulsion with highly penetrating ability based on nano-molecular structure. Used for protection against moisture and stains unporous substrates such as surfaces of polished marbles, granites, tiles, porcelain etc. Suitable for indoor and outdoor application. CE certified as a hydrophobic impregnation, according to EN 1504-2.

Color: White (transparent after drying).

Consumption: 50-70 ml/m², depending on the absorptivity of the surface.

Packaging: Plastic containers of 1 lit, 5 lit and 20 lit.



VS 1

Acrylic stone varnish

Used to impregnate and brighten up natural stones (slate or sinter stones etc.) and artificial building materials (decorative bricks, roof tiles etc). VS-1 brings out the natural color of the material on which it is applied, protecting at the same time from the influence of rainwater and atmospheric pollution. It is applied on walls and floors, indoors or outdoors.

Color: Transparent.

Consumption: 150-200 ml/m² per layer, depending on the absorptivity of the surface.

Packaging: Cans of 1 lit, 4 lit and 10 lit.



VARNISH-PU 2K

Polyurethane, transparent two-component, protective varnish

Used as a protective varnish over decorative cement mortars like microcements, over stones, wooden surfaces, cement-based floors etc. Characterized by high abrasion strength and resistance to UV radiation. CE certified as a coating for surface protection of concrete, according to EN 1504-2.

Color: Transparent.

Consumption: 70-120 g/m² per layer, depending on the absorptivity of the surface.

Packaging: Cans of 1kg (A+B) and 5kg (A+B).

PRIMERS



UNI-PRIMER

Acrylic water-based primer

Ready-to-use acrylic water-based primer. Stabilizes weak, loose or crumbling plasters.

Color: White. **Consumption:** 0.1-0.2 kg/m².

Packaging: Plastic containers of 1 kg, 5 kg and 20 kg.



FLEX-PRIMER

High quality acrylic water-based primer

In combination with the highly elastic waterproofing paint FLEXCOAT, it forms an ideal system for the waterproofing of walls.

Color: White. **Coverage:** 5-10 m²/kg.

Packaging: Plastic containers of 1 kg, 5 kg, 10 kg and 20 kg.



PRIMER CLASSIC

Acrylic, micronized, water based primer

It offers excellent bonding. Suitable for use on new surfaces, such as plasters, concrete, bricks etc., that are going to be coated with emulsion paints.

Color: Blue.

Coverage: 10-15 m² per liter, per layer.

Packaging: Plastic containers of 1 lit, 5 lit, 10 lit and 20 lit.



PRIMER ACRYL

Silicone acrylic micronized water based primer

It offers excellent bonding, high penetration and durability. Protects from rising moisture and salts stains. It stabilizes weak substrates. It is used on new or old external porous surfaces that are going to be covered with paints or plasters.

Color: Light yellow.

Coverage: 10-15 m² per liter, per layer.

Packaging: Plastic containers of 1 lit, 5 lit, 10 lit and 20 lit.

PUTTIES



STUCCOCRET

Spatula putty

Suitable for smoothing and preparing wall surfaces to be covered with paint or other coatings. It is applied on surfaces made of concrete or plaster. Replaces oil stuccos and other similar materials. It is classified as GP CS II, WO mortar, according to EN 998-1.

Color: White.

Consumption: Approx. 1.1 kg/m²/mm of layer thickness.

Packaging: Bags of 4 kg, 10 kg and 20 kg.



STUCCOCRET-PLUS

Polymer-modified spatula putty

Suitable for smoothing and preparing interior wall surfaces to be covered with paint or other coatings. Suitable for surfaces made of concrete or plaster. Replaces oil stuccos and other similar materials. It is classified as GP CS II, WO mortar, according to EN 998-1.

Color: White.

Consumption: Approx. 0.9 kg/m²/mm of layer thickness.

Packaging: Bags of 20 kg.



PLANFIX

Polymer-modified cement putty

It is used for repairing and puttying exposed concrete, fixing of pores or cavities etc. It is classified as PCC R2 mortar for concrete repairs, according to EN 1504-3.

Color: White, grey.

Consumption: Approx. 1.3 kg/m²/mm of layer thickness.

Packaging: Bags of 5 kg and 25 kg.



PLANFIX-FINE

Polymer-modified, extra fine-graded, cement putty

It is used for repairing and puttying exposed concrete. It can be also applied using a gunite machine. It is classified as PCC R2 mortar for concrete repairs, according to EN 1504-3.

Color: White, grey.

Consumption: Approx. 1.3 kg/m²/mm of layer thickness.

Packaging: Bags of 5 kg and 25 kg.



FLEX-COVER

Two-component, flexible putty

It consists of a cement-based powder (component A) and a resin emulsion (component B). Suitable for sealing and waterproofing joints and cracks, on walls or floors. It can be also used on window recesses, junctions between floors and walls, as well as for puttying surfaces with hair-cracks. To be applied on plaster, cement, gypsum boards, wood etc. Ideal for outdoor applications.

Color: White.

Consumption: Joint 5 mm x 5 mm: 40 g/m of joint length.

Puttying: 1.6 kg/m²/mm of layer thickness.

Packaging: Plastic buckets of 2.6 kg (A+B).



FAST-COVER

Ready-to use, lightweight acrylic spackling putty

Ideal for filling and patching cracks and holes of any kind, in a single step. It is applied on plaster, gypsum board, wood etc. at a maximum thickness of 5 cm. It does not crack and it doesn't need to be rubbed. Painting follows after 30 minutes.

Suitable for indoor and outdoor application.

Color: White.

Packaging: Plastic buckets of 0.5 lit, 1 lit and 5 lit.

TILE ADHESIVES



ISOMAT AK 22

High performance, flexible, polymer-modified tile adhesive

It is suitable for fixing absorptive or non-absorptive tiles (e.g. "gres porcelanato"), large tiles, glass mosaic tiles etc. on walls or floors on substrates with particularly high demands for adhesion, elasticity and moisture resistance (e.g. floors with in-floor heating, metallic surfaces, swimming pools, gypsum board etc.). Possesses increased open time. For indoor and outdoor applications. It is classified as C2 TE S1 adhesive, according to EN 12004 and EN 12002.

Color: White, grey.

Consumption: 1.5-4.0 kg/m².

Packaging: Bags of 5 kg, 15 kg and 25 kg in white and 5 kg and 25 kg in grey color.



ISOMAT AK 25

High performance, elastic, polymer-modified tile adhesive

Appropriate for fixing all kinds of tiles on walls and floors. For applications where elasticity, adhesion, and moisture resistance is required (e.g. old tile layers, heated floors, metallic surfaces, swimming pools, gypsum-boards). For indoor and outdoor applications. It is classified as C2 TE S2 adhesive, according to EN 12004 and EN 12002.

Color: White, grey.

Consumption: 1.5-4.0 kg/m².

Packaging: Bags of 5 kg and 25 kg.



ISOMAT AK-ELASTIC

High performance, two-component, elastic tile adhesive

Suitable for fixing tiles of every type on walls or floors, on vibrative or dimensionally unstable substrates like gypsum board, chipboard, floors with in-floor heating, terraces, balconies, swimming pools etc. Combined with the elastic sealing slurry AQUAMAT-ELASTIC, it provides a perfect system for sealing and fixing. It is classified as C2 E S2 adhesive, according to EN 12004 and EN 12002.

Color: White.

Consumption: 1.5-4.0 kg/m².

Packaging: 35 kg (25 kg comp. A + 10 kg comp. B).

TILE GROUTS



MULTIFILL 2-5

Tile grout

Cement-based colored grout for pointing tile joints on walls or floors, for indoor and outdoor applications. Suitable for joint widths from 2 mm to 5 mm. It is classified as CG2 WA tile grout, according to EN 13888.

Color: 34 color shades.

Consumption: 0.2-2.0 kg/m², depending on tile and joint dimensions.

Packaging: Bags of 2 kg, 5 kg and 25 kg.



MULTIFILL 3-15

Tile grout

Cement-based colored grout for pointing tile joints on walls or floors, for indoor and outdoor applications. Suitable for joint widths from 3 mm to 15 mm. It is classified as CG2 WA tile grout, according to EN 13888.

Color: 20 color shades.

Consumption: 0.2-2.0 kg/m², depending on tile and joint dimensions.

Packaging: Bags of 5 kg and 25 kg.



MULTIFILL SMALTO 1-8

Water-repellent tile grout of porcelain texture

Colored, cement based tile grout enriched with resins. It offers high mechanical strength, superb color stability and great water-repellence. Contains special bacteriostatic agents, which block the formation of bacteria on the grout. It gives a smooth and glossy final surface. Suitable for joint width 1-8 mm.

It is classified as CG2 WA tile grout, according to EN 13888.

Color: 36 color shades.

Consumption: 0.2-2.0 kg/m², depending on tile and joint dimensions.

Packaging: Bags of 2 kg, 4 kg and 20 kg.

IMPROVING RESINS



ADIPLAST

Polymer latex for multiple improvements of mortars

Improves the properties of mortars in several ways offering, e.g. increased bonding to substrate, flexibility, shrinkage reduction, higher resistance to chemical effects and abrasion, enhanced water impermeability etc. Ideal for creating the bonding layer between old and new concrete or mortar.

Color: White.

Consumption: Added to the mixing water in proportion of ADIPLAST : water = 1:1 to 1:5.

Packaging: Plastic containers of 1 kg, 5 kg, 20 kg and drums of 150 kg.



DS-99

Additive for tile adhesives and joint grouts

It increases the bonding to the substrate, the flexural and compressive strength, the abrasion, the resistance to chemicals and frost. It also improves flexibility and offers water impermeability.

Color: White.

Consumption: Added to the mixing water in proportion of DS-99 : water = 1:1 to 1:2.

Packaging: Plastic containers of 1 kg, 5 kg and 20 kg.

ELASTIC JOINT SEALANTS



ISOMASTIC-A

Elastoplastic acrylic sealant

Suitable for sealing work joints, thin expansion joints or plaster cracks in interior or exterior areas. Also suitable for slightly wet surfaces. Easily paintable.

Color: White, grey.

Consumption: Joint 5 mm x 5 mm: 1 cartridge/11.2 m of joint length. Joint 10 mm x 10 mm: 1 cartridge/2.8 m of joint length.

Packaging: Cartridges of 280 ml and 600 ml.

CLEANING AGENTS



CL-CLEAN

Tile and natural stone cleaner

Removes lime residues, plaster, cement etc.

Color: Transparent.

Consumption: 0.15-0.2 kg/m², depending on the case.

Packaging: Plastic containers of 1 kg, 5 kg and 20 kg.



FD-CLEAN

Oil and grease remover from concrete floors

Removes oil and grease residues from concrete floors by emulsification. **Color:** Transparent.

Consumption: 0.8-1.0 kg/m², depending on the absorptivity and the burdening of the surface.

Packaging: Plastic containers of 0.75 kg and 18 kg.

REINFORCEMENTS



FIBERGLASS MESH FOR REINFORCING WATERPROOF LAYERS

Fiberglass mesh for total reinforcement of waterproof layers (e.g. ISOFLEX membrane) in tough cases of multiple cracking.

Weight: Approx. 65 g/m².

Packaging: Rolls of 1 m x 50 m (50 m²) and 10 cm x 50 m.



TREVIRA

Thin polyester fabric

It is used for reinforcing various waterproof layers, such as ISOFLEX, AQUAMAT-ELASTIC etc.

Weight: 30 g/m².

Packaging: Rolls of 1 m x 100 m (100 m²), 1 m x 200 m (200 m²) and 10 cm x 50 m.



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