

PX-21

Imper

IRON-WASH

High adherence multi-substrate elastic water-proofer.



BEFORE APPLYING THIS PRODUCT CHECK OUT APPLICATIONS MANUAL AND/OR DEMO VIDEO

INFORMATION ON DIRECTIVE 2004/42/CE
CATEGORY I1, ONE COMPONENT WATER-BASED
HIGH PERFORMANCE COATINGS

Limit: 140g/l COV (2007); 140 g/l COV (2010)
This product contains: 32,24 g/l COV max.



SUBSTRATES AND USES

Cement, concrete, aerated concrete, fibre cement, acrylic coatings and old water-proofers, hollow bricks, Catalan tiles, metals (with no need of previous priming,) tiles, asphaltic cloth, bituminous products, non-waxed products, (PVC, PET, polycarbonate...) polyurethane foam, asbestos cement.

Surfaces should be free from flaws, dry, cohesive, absorbent, well adhered, clean and free of dust.

FEATURES

- Possibility of product containing fibre-glass.
- Great filling-in capacity.
- Permeable to water vapour.
- Totally washable.
- Maintains flexibility in low temperatures (3°C) and resistant to extreme temperatures (80°C).
- Product reserved for technical access.
- High protection non-decorative product.
- Available in 10 colours.

IDEAL FOR

- Water-proofing façades and party walls, sloping roofs, (slope > 5%) and repairing leaks, gutters and pipes, glazed roofs and repairing perforations.
- Asbestos encapsulation according to directive D.M. 20th. August 1999 from the Republic of Italy.



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DRY FILM PROPERTIES

It's special features of composition, confer to the resulting dry film, exceptional adhesion properties, hardness and elasticity. The result is an impermeable membrane, elastic with great stretching and recovering power that adheres to the substrate adapting to its shapes leaving no joints or splices. Under standard drying conditions it reaches it's total curing in 28 days, offering as from then optimal resistance values to the physical phenomena such as abrasion, chemicals such as corrosion produced by carbon dioxide, sulphurous and meteorological such as rains and U.V. sun rays. 28 days after applying the water-proofer, the elastomer film is in its cross-linking phase and is susceptible to attacks by external agents, (rain, frost, snow, strong winds, high atmospheric humidity, etc.) . Check the weather forecast before applying the product.

HOW TO APPLY IN CONSTRUCTION

SURFACE PREPARATION

The surface should be healthy, clean and free of any trace of saltpetre, fungus, micro-organisms, grease, release oils or whatever other material that could prevent the good adherence of the product itself.

CLEANSING

When surface shows traces of fungus, algae or other types of micro-organisms, firstly proceed with our healing treatment RX-526 Clean Energy. This is to be applied on the surface to be treated, and after 5 -10 minutes performance, proceed in cleansing the substrate with the aid of a water pressure machine or a hard bristle brush.

Once completely dried, proceed in applying RX-524 Clean Musg until it is completely impregnated. This treatment is called preventive, it is very effective and helps to prevent the future appearance of micro-organisms.

In the case of saltpetre stains, proceed in applying our RX-523 Clean Sal. When the product is dry, scrape the surface with the aid of a hard bristle brush. After the mechanical cleansing of the surface, rinse with clean water in order to neutralize any remaining CLEAN SAL residue that could still be on the substrate.

The presence of oils or grease, especially on metal sheets should be completely removed in order to allow a correct adhesion of the product on the substrate. We recommend the use of RX-527 CLEAN OIL for the correct and total removal of these substances.

RENOVATION OF FISSURES

TREATMENT OF FISSURES OR CRACKS OF SIZES INFERIOR TO 2 MM: For treating small size fissures no specific process of repairing treatment is necessary. The simple and usual application of PX-02 ELASTINE would be necessary, since due to its thixotropy it is able to introduce itself in the fissures in order to produce their sealing.

TREATMENT OF FISSURES OR CRACKS OF SIZES LARGER THAN 2 MM: If fissures larger than 2mm appear on the substrate, these should be opened, fix the inside with our RX-501 SOLVENT-BASED FIJAPREN, leave to dry at least for 4 hours and following this , fill them in with RX-400 RUALAIX ELASTIC, or with PX-21 IRON WASH, whose elastic component, allows the absorption of structural movements. Leave to dry for at least 24 hours.

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HOW TO USE

INSTRUCTIONS FOR USE

A brush, woollen, roller, trowel or airless blaster (only for the product version which does not contain fibre-glass), with nozzle 4.29, 4.31, 5.29, 5.31 6.29 or 6.31. For an ideal water-proofing and sealing of the substrate a minimum thickness of 1.5/m² needs to be applied in wet or a minimum quantity of 1.61 l/m².

The established application processes vary according to the type of substrate and the desired application form which are described as follows:

MANUAL APPLICATION ON ABSORBENT AND NON-ABSORBENT SUBSTRATES (EXCEPT FOR GLAZED TILES O VITRIFIED).

METHOD BY PHASES

- APPLY A FIRST COAT OF IRON WASH ON THE SUBSTRATE SO IT COMPLETELY COVERS THE SURFACE TO BE TREATED.
- WHILST IT IS STILL WET, INCORPORATE A FIBRE-GLASS VEIL ON THE FIRST LAYER OF THE MATERIAL.
- BEFORE ALLOWING TO DRY, APPLY A SECOND FINISHING COAT.

AIRLESS APPLICATION ON ABSORBENT AND NON-ABSORBENT SUBSTRATES

METHOD BY PHASES

- Apply a first coat of IRON WASH on the substrate so it completely covers the surface to be treated.
 - Leave to dry.
 - Apply a second finishing coat of IRON WASH in a different colour to the first layer applied, so it completely covers the colour of the first coat.
- In any case be sure that the quantity applied is of 1.6 l/m² minimum.

APPLICATION ON REHEATED SUBSTRATES

For applying on this type of substrate it is recommended to use the product by means of airless projection . Alternatively, a manual application is also allowed but the final aspect of this type of application can lead to the forming of skins.

METHOD BY PHASES

- Apply a first coat of IRON WASH on the reheated so it performs as a primer.
- Leave to dry.
- Apply a second coat of IRON WASH on the substrate so it completely covers the surface to be treated.
- Whilst the second coat is still wet, incorporate a fibre-glass veil (in the case of manual application).
- Leave to dry.
- Apply a third finishing coat of IRON WASH in a different colour to the second layer applied, (in the case of airless applications) or of the same colour (in the case of manual application).

APPLICATION ON SUBSTRATES WITH SUPERFICIAL RUST

IRON WASH contains rust inhibitors, so it can be applied directly without the need of a previous primer. Nevertheless, prior to applying the material it is strictly necessary to eliminate any type of excess, like rust flakes o loose parts that the substrate could have as these could significantly reduce the bonding of IRON WASH.

Once the base is consistent and according to the needs of the system to be water-proofed you can proceed in applying IRON WASH following whichever of the methods mentioned previously.

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MANUAL APPLICATION ON VITRIFIED OR GLAZED TILES

METHOD BY PHASES

- Apply a first coat of IRON WASH on the substrate so it completely covers the surface to be treated.
- Leave to dry.
- Apply a second finishing coat of IRON WASH in a different colour to the first layer applied, so it completely covers the colour of the first coat. In any case be sure that the quantity applied is of 1.6 l/m² minimum.

GUARANTEED PRODUCT

There is a 10 year guarantee, endorsed by an insurance policy, valid only in the case of a correct application of the material.*

* **MANUAL APPLICATION:** The application of the material is uniquely and exclusively considered correct when it has been carried out in two coats to the rate of 1.5/m² and with the use of fibre-glass veil (always and when it's use on the substrate has been advocated in the current Technical Data Sheet). The applications that involves the burying of the material are not covered by the guarantee.

* **AIRLESS APPLICATION:** The application of the material considered correct is when it has been carried out in two coats (using two different colours) always and when a minimum of 1.6l/m² has been used.

(*) For further information, consult the manual and the application video.

DATA & TECHNICAL FEATURES

- Silicone-free product.
- Prevents the formation of mold on the coating.
- Elastic-protective coating that provides waterproofing from rain water and environmental humidity, remaining unchanged in the open.
- Product suitable for protection on any type of surface.
- Permeable to water vapour.
- Completely washable.
- Large filling capacity.
- Maintains flexibility in extreme temperatures once the film is cured (from 3°C to 80°C).
- Substrate alkalinity resistant.
- Admits moderate transit.
- Excellent adhesion on absorbent and non-absorbent substrates.
- Quick drying product.
- Resistant to specific exposure to acids and bases.
- Excellent workability.
- Water-proof inclusive in terraces where there can be stagnant water, (pools), nevertheless, not suitable for immersion or waterproofing swimming pools.
- Capable of being applied on reheated substrates.
- Resistant to contraction movements and expansion of substrates.
- Possess rust inhibitor effect so can be applied directly without the need of prior primer.
- The applying of IRON WASH on metal plates provokes life extension effect by protecting from environmental corrosion.
- Product re-paintable by itself.

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| PACKAGING PRODUCT TESTS (UNE 53413) | | TRIALS CARRIED OUT WITH WATERPROOFER OF THICKNESS IN DRY OF 1MM AND 15 DAYS CURING (UNE 53413) | |
|---|----------------------------|--|--|
| Relative density | 1.25 + 0.07 (g/ml) | TENSILE STRENGTH | 1.8 MPa |
| Behaviour to fire | E – d0 Combustible | Ultimate elongation | 320% |
| pH | 7.0 - 8.0 | Bent at low temperatures | No presence of fissures and/or cracks. |
| Brookfield Viscosity | 35000 - 70000 cP (A/6/10)* | Accelerated artificial aging. | |
| Drying time in 2mm thickness and absorbent substrate. | | - Tensile strength | 5.9 MPa |
| - dry to the touch: | 2H - 3H* | - Ultimate elongation | 220% |
| - Total drying: | 4H - 5H* | - Break elongation variation | 16% |
| Drying time in 2mm thickness and non-absorbent substrate: | | WATERPROOF WATER-BASED WATERPROOFER WITH A THICKNESS OF 1MM AND 15 DAYS CURING TIME (NF T30-701) | |
| - Dry to the touch: | 2H:30 - 3H:30* | After a trial of 7 days no symptoms of leakage are observed, confirming impermeability. | |
| - Total drying: | 4H - 6H* | | |
| Cleaning of tools | Use water | | |

INFORMATION ON DIRECTIVE 2004/42/CE – CATEGORY i1

| COV LIMIT | COV CONTENT |
|---------------------------------|----------------|
| 140 g/l (2007) – 140 g/l (2010) | 32,34 g/l max. |

WARNING AND SPECIFIC CARE

- If the surface is in bad conditions, it is essential to do any necessary masonry repairs (fix damages, depressions/imperfections, expansion joints, etc...).
- Bases should be strong absorbent, dry, free from dust, moss, oils or greases and/or any type of product that could hinder the adhesion.
- IRON WASH can be walked on by people who use flat shoes, (moderate transit or technical access). It is absolutely forbidden to deposit objects such as tables, chairs or furniture on the bases waterproofed with IRON WASH that could damage the waterproofing film.
- Due to the nature of the components it is possible that when walking on PX-21 one appreciates a feeling of stickiness. This is a natural phenomenon of the product and is denominated “tacking” and should disappear in time.
- If applied by means of airless blaster, one should avoid long periods of inactivity of the machine (30-40 mins). The material could start to dry in some parts of the machinery (nozzles, hose, etc), and thus seal it. In the case of long periods of inactivity of the machine, we recommend cleaning the machine before use.
- PX-21 is formulated to use and it is totally forbidden to mix it or dilute with water or any other type of solvent. If it is diluted the benefits described in the Data and Technical Features will reduce.
- It is important that the product is applied on surfaces that are not given to retaining water-bags. These are highly water-proofed products but are not designed to work submerged in stagnant water. Rainwater in movement does not affect at all.
- * Do not store in places with temperatures lower than -2°C.

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- Do not apply on days with risk of rains or snowfall.
- This product is not for use to waterproof ponds or drinking water deposits or water that is in contact with fish or any other animal.
- Not suitable for continuous immersion or to waterproof swimming pools.
- BAIXENS' technical department informs that the new designs in the development of recent launches are considered in their experimental phase until an annual revision is made. From this point on, the product of a recent launch is considered as being totally consolidated in the market. In the meantime,
- BAIXENS reserves its right to adapt the variable specifications or ranges of work, according to technical criteria. The information subject to modification, will be identified with an Asterix at the top for easy recognition of those products which are the subject of new creation or are subject to an experimental phase or improvement in our different ranges because of market demand and or needs.
- We have a technical-sales team at your disposal for technical advice or consultation.
- The application of Iron Wash with airless blaster produces a rough finish like the one shown in the following picture, (orange -skin effect).
- In the case of applying IRON WASH in very windy conditions or under cause of extension of drying time, (nights, excessively high relative humidity conditions), alterations in the applied surface may occur as those shown in the picture which can be repaired by superimposing a new coat of IRON WASH.
- Asphalt fabrics are bituminous compounds settled on the bases with the use of heat; applying IRON
- WASH should be done when these coverings are degraded and the oils, plastics and other bitumen are deactivated. On new non-degraded asphalt fabric, said hostile interfaces are not deactivated, causing failure in adhesion with IRON WASH, as shown on the image.
- After covering with IRON WASH the cracks caused by applying in excessive windy conditions or by extended drying time, the waterproofing film can maintain the silhouette of these cracks on the surface (tracing effect) with no danger of filtrations as they would be completely sealed by the coat of the product applied.
- With the intention of eliminating any paraffine film that could be present, applying IRON WASH on paraffined plastics can be done if a sanding process has been previously done on the surface to be treated.
- The adhesion of IRON WASH on asphalt fabric and bitumen products is of a cohesive type on the substrate (direct fastening). Nevertheless, the lack of solidness of the asphalt fabric can cause offspring of its inner layers during direct transit that could produce alterations in the waterproofing film.



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- Apply the product at a minimum ambient temperature of 3°C and maximum of 80°C in order to avoid possible alterations in the film such as capillaries or fissures; which would only affect the aesthetics of the film applied. These anomalies do not affect the adhesion but could affect the water-proofing capacity.
- In low temperature applications and high level of environmental humidity the products substantially slows down in its drying time.



PACKAGING



| FORMAT | 15 L | 4 L | 0.750 L |
|-----------|------------|-------------|----------|
| UNIT/CASE | - | - | 12 |
| PALLETS | 33 BUCKETS | 120 BUCKETS | 44 CASES |

INFORMATION OF INTEREST

The manufacturing process of the water-proofers is controlled in batches, which allows traceability in the case of any incident. The quality control system used includes, the individual design and development of each article, both with the raw materials used confirming manufacturing uniformity, as well as the final product obtained. The use in our facilities of eco-technology in the manufacturing process allows the completion of environmentally friendly efficient work.

- Non-flammable product.
- Avoid contact with eyes and skin.
- Smoking, eating or drinking in the area of use should be prohibited.
- Comply with Health and Safety at Work Executive regulations.
- Store the product in a dry place, in its original packaging firmly closed.
- Store the containers between 5°C and 35°C.
- Recommended storage time: 12 months as from date of manufacture.

For further information on protective measures and first aid, consult the product Safety Data Sheet.

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TYPE OF FINISH DEPENDING ON THE TOOL USED

BRUSH APPLICATION



TROWEL APPLICATION



FOAM ROLLER APPLICATION



MICROFIBRED ROLLER APPLICATION



AIRLESS APPLICATION



LONG HAIR ROLLER APPLICATION



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COLOUR CHART

TE-01 WHITE

TE-02 RED

TE-03 ROOF TILE RED

TE-04 RUSTY RED

TE-05 LEVANTE RED

TE-06 GREEN

TE-07 BLUE

TE-08 CEMENT GREY

TE-09 SLATE GREY

TE-10 BLACK



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difference*

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