

PX-21

Imper

IRON-WASH

Elastic multi-surface waterproofing with high adherence.



BEFORE APPLYING THIS PRODUCT
CHECK OUT THE 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.



SURFACES

Cement, concrete, cellular concrete, fibre cement, acrylic coatings and old waterproofing, hollow bricks, Catalan tile, metals (without prior priming), tiles, asphalt fabrics and bituminous products, non-paraffin based plastics (PVC, PET, polycarbonate,...), polyurethane foam, cement-asbestos.

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

CHARACTERISTICS

- Possibility of product containing fibreglass.
- High filling capacity.
- Water vapour permeable.
- Fully washable.
- It maintains its flexibility at low temperatures (3°C) and resists extreme temperatures (80°C).
- Product reserved for technical access.
- High protection product - non-decorative.
- Anti-carbonation product.
- Available in 10 colours.

IDEAL FOR

- Waterproofing of façades and partitions, sloping roofs (slope > 5%) and for repairing leaks, gutters and pipes, glass roofs and repair of perforations.
- Encapsulation of asbestos according to D.M. decree. 20 August 1999 of the Italian Republic.



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DRY FILM PROPERTIES

Its special compositional characteristics give the resulting dry film exceptional adhesion, hardness and elastic properties. The result is a waterproof, elastic membrane with great capacity for elongation and recovery, which adheres to the support, adapting to its shape without joints or splices. Under normal drying conditions, it reaches its total curing after 28 days, offering from then on optimum resistance values to *physical phenomena* such as abrasion, *chemical phenomena* such as corrosion produced by carbon and sulphur dioxide, and *meteorological phenomena* such as rain and even UV radiation from the sun. During the 28 days following the application of the waterproofing, the elastomer film is in the reticulation phase, and is susceptible to attack by external agents (rain, ice, snow, strong wind, high environmental humidity, etc.). Before application it is necessary to consult the weather forecast.

ON-SITE APPLICATION

SURFACE PREPARATION

The surface must be sound, clean and free of any trace of saltpetre, fungi, micro-organisms, grease, release oils and, in general, any type of material that could make it difficult for the product to adhere to the base.

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 MICRO** 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-21 IRON WASH** 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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ON-SITE APPLICATION

DIRECTIONS FOR USE

Application can be carried out by brush, roller, trowel or airless machine (only for the version without incorporated fibre) with nozzle 4.29, 4.31, 5.29, 5.31, 6.29 or 6.31. For correct waterproofing and sealing of the surface it is necessary to apply a minimum wet application of 1.5 mm thickness, or in other words, a minimum quantity of 1.6 l/m².

The established application procedures vary depending on the type of surface and the desired form of application, and are described below:

MANUAL APPLICATION ON ABSORBENT AND NON-ABSORBENT SURFACES (EXCEPT GLAZED OR VITRIFIED TILES)

PHASED APPROACH

- Apply a first coat of **IRON WASH** on the surface so that it fully covers the surface to be treated.
- While it remains wet, incorporate a fibreglass cloth into the first layer of material.
- Then, without letting it dry, apply a second coat of finish.

AIRLESS APPLICATION ON ABSORBENT AND NON-ABSORBENT SURFACES

PHASED APPROACH

- Apply a first coat of **IRON WASH** on the surface so that it fully covers the surface to be treated.
- Allow to dry.
- Apply a second coat of **IRONWASH** in a different colour to the first coat applied, so that it fully covers the colour of the first coat. In any case, make sure that the amount applied is at least 1.6 l/m².

APPLICATION ON REHEATED SURFACES

For application on this kind of surfaces, airless spraying of the product is recommended. Alternatively, manual application is also permitted but the final appearance of said application may result in the formation of skins.

PHASED APPROACH

- Apply a first coat of **IRON WASH** on the reheated surface, which will act as a primer.
- Allow to dry.
- Apply a second coat of **IRON WASH** on the surface so that it fully covers the surface to be treated.
- While the second coat is still wet, incorporate a piece of fibreglass cloth (in case of manual application).
- Allow to dry.
- Apply a third and final coat of **IRON WASH** finishing coat in a different colour to the second coat of material (in the case of airless application) or in the same colour (in the case of manual application).

APPLICATION ON SUBSTRATES WITH SURFACE RUST

IRON WASH contains in its formulation rust inhibitors, so it can be applied directly on it without the need for previous priming.

However, prior to the application of the material, it is strictly necessary to eliminate any excess, rust flakes or loose parts that the surface may have, as these inconsistent parts can significantly reduce the anchorage of **IRON WASH**.

After obtaining a consistent base, iron wash can be applied using any of the methods mentioned above, depending on the needs of the system to be waterproofed.

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ON-SITE APPLICATION

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 material is only and exclusively considered to be correctly applied in two coats at a minimum rate of 1.6 l/m² and using fibreglass cloth (provided that it has been recommended for use on this surface in this technical sheet). Applications that involve burying the material are not warranted.

AIRLESS APPLICATION: It is considered correct to apply two coats (with the application of two different colours) as long as a minimum of 1.6 l/m² has been used.

(*) For further information, please refer to the application manual and video provided by the manufacturer.

DATA & TECHNICAL CHARACTERISTICS

- 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.

INFORMATION ON DIRECTIVE 2004/42/CE – CATEGORY I1

COV LIMIT

140 g/l (2007) – 140 g/l (2010)

COV CONTENT

32,34 g/l max.

WATERPROOF WATER-BASED WATERPROOFER WITH A THICKNESS OF 1MM AND 15 DAYS CURING TIME (NF T30-701)

After a trial of 7 days no symptoms of leakage are observed, confirming impermeability.

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DATA & TECHNICAL CHARACTERISTICS

PACKAGING PRODUCT TESTS (UNE 53413)	
Relative density	1.25 + 0.07 (g/ml)
Behaviour to fire	E – d0 Combustible
pH	7.0 - 8.0
Brookfield Viscosity	35000 - 70000 cP (A/6/10)*
Drying time in 2mm thickness and absorbent substrate.	
- dry to the touch:	2 - 3 H*
- Total drying:	4 - 5 H*
Drying time in 2mm thickness and non-absorbent substrate:	
- Dry to the touch:	2H:30 - 3H:30*
- Total drying:	4 - 6 H*
Cleaning of tools	Use water

TRIALS CARRIED OUT WITH WATERPROOFER OF THICKNESS IN DRY OF 1MM AND 15 DAYS CURING (UNE 53413)	
Tensile strength	1.8 MPa
Ultimate elongation	320%
Bent at low temperatures	No presence of fissures and/or cracks.
Accelerated artificial aging.	
- Tensile strength	5.9 MPa
- Ultimate elongation	220%
- Break elongation variation	16%

Adhesion by direct traction (EN 1542)	≥ 0.8 MPa
Capillary absorption and permeability to liquid water (EN 1062-3)	< 0.1 Kg/ (m ² . h ^{0.5})
Permeability to water vapour (EN ISO 7783)	Clase I
Hazardous substances	Complies to 5.3 EN 1504-2
Permeability to CO ₂ (EN 1062-6)	Sd > 50 m

OBSERVATIONS

- The data provided in this data sheet are for guidance only and should not be considered binding. The data has been obtained in normal laboratory conditions and on standardised surfaces, and can vary depending on the conditions in which they are applied (absorption of the surface, applied thickness, temperature, environmental humidity, etc.). The intervals displayed have been shaped by measurement history. Slight deviations from the ranges presented in this technical sheet, whether higher or lower, will be accepted according to internal technical criteria and will not result in a loss of quality or affect the performance of the final product, due, among other factors, to variations in measurement conditions and the uncertainty associated with the instruments used.
- If the surface is in poor condition, it is essential to make the appropriate masonry repairs (repair of flaws, hollow spots, expansion joints, etc.).
- Substrates must be strong, dry, free of dust, moss, oils, grease and/or any other product capable of hindering adhesion.
- IRON WASH** can be walked on by people taking into account that they should walk on it with flat shoes (moderate traffic). It is strictly forbidden to place objects such as tables, chairs or any other type of furniture or sharp objects that could damage the waterproofing film on the **IRON WASH** waterproofed surface.

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OBSERVATIONS

- Due to the nature of its components it is possible that when walking on **PX-21** you may notice a sticky sensation; this is a natural phenomenon in this product, it is called tacking and will disappear with time.
- In the case of airless application, long periods of inactivity of the machine (30 - 40 min.) should be avoided, as the material may dry out in some parts of the machine (nozzles, hose, etc.) and choke it. In cases where long idle times will occur, cleaning of the machine is recommended.
- **PX-21** is formulated for use only, it is strictly forbidden to mix or dilute it with water or any other type of solvent. If it is diluted, the performance described in the technical data and characteristics section will be reduced.
- It is important that the product is applied on a surface that is not prone to retaining water pockets. These are highly waterproof products, but are not designed to work submerged in standing water. Moving rainwater does not affect them at all.
- Do not store in places with temperatures below -2°C .
- Do not apply on days when it might rain or snow.
- The product should not be used for the waterproofing of ponds or drinking water tanks or water in contact with fish or other animals.
- Not suitable for continuous immersion and/or the waterproofing of swimming pools.
- The technical department of **BAIXENS** states that the designs of recently launched new products are considered to be in an experimental phase until an annual history can be constituted. From then on, the newly designed product is considered to be fully consolidated in the market. In the meantime, **BAIXENS** reserves the right to adapt its variable specifications or working ranges according to technical criteria. The data subject to modification will be accompanied by an asterisk for easy identification. These may be recently created products and/or products in an experimental phase or improvements in our various ranges due to market needs and/or demands.
- We place a technical-commercial team at your disposal that will advise you on any doubts or queries.
- The airless application of **IRON WASH** produces a rough finish as shown below (orange peel effect).
- In the event that **IRON WASH** is applied in conditions of excessive wind or that provoke a prolongation of its drying time (nights, excessively high relative humidity, etc.), it can cause alterations in the surface it has been applied on, such as the ones shown, which can be repaired by superimposing a new coat of **IRON WASH** on them.



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OBSERVATIONS

- The asphalt membranes are bituminous compounds that are positioned and stuck on top of the substrates by means of heat; the application of **IRON WASH** must be carried out when these coatings have degraded and the oils, plastics and other bitumens are already deactivated. On a new asphalt surface, with no degradation, these hostile interfaces are not deactivated, causing adhesion failure with **IRON WASH**, as shown in the image.
- After covering with **IRON WASH** the cracks caused by the application in conditions of excessive wind or with prolongation of the drying time, the waterproofing film can maintain the silhouette of the cracks on the surface (tracing effect) but without the danger of filtrations as they are totally sealed by the application of the product coat.
- The application of **IRON WASH** on paraffin coated plastics can be carried out if the surface to be treated is previously sanded in order to remove the paraffin film present.
- The adhesion of **IRON WASH** on asphalt and bituminous products is of the cohesive type on the surface (direct anchorage). However, the lack of strength of the asphalt membrane may cause detachment of its internal layers during direct traffic, which may cause alterations in the waterproofing film.
- Apply the product on the surface at a minimum temperature of 3°C and a maximum of 80°C, to avoid possible alterations in the film such as capillaries and/or slight fissures; which would only affect the aesthetics of the applied film. These anomalies do not affect adhesion, but could affect the waterproofing capacity.
- In applications at low temperatures and high humidity the product slows down the drying process.



INFORMATION OF INTEREST

The manufacturing process of the waterproofing is controlled by batch, 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 the product coming into contact with skin and eyes.
- 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 from the date of manufacture in its original packaging and protected from moisture.

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


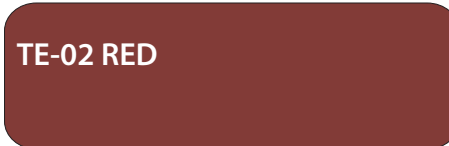










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COLOUR CHART

 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

PACKAGING

FORMAT	15 l	4 l	750 ml
UNITS/BOX	-	-	12
PALLETS	33 CANS	120 CANS	44 BOXES



Internal code PX21NF1572A20



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Testing the difference

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