



**Prodotti Speciali per l'Edilizia - Prodotti Tecnici per l'Industria**



Italkem is an established leader in the field of chemical products for shipbuilding, industry and building trade. It's a company which, thanks to the great specialization and experience of its technicians, it is able to satisfy the needs of its customers, proposing specifically created solutions for each circumstance.

Italkem products cover the entire range in the areas of adhesives and sealants, flooring industry, wood floors, carpeting and resilient for the treatment of stone materials and concrete additives.

The production process is assisted by a quality assurance system according to ISO 9002 and each component meets the requirements for safety and environmental protection. Each formulation is checked on the output and is constantly revised over time, with particular attention paid to hazard classification, packaging, labelling, instructions for use and dosages.

Since June 1, 2007 Italkem regulates supply and domestic production according to the REACH Regulation of the European Parliament and Council no. 1907/2006 on 18 December 2006.

Italkem is active on the entire Italian territory by means of a network of commercial technicians, trained not only in sales but also in "problem solving", granting a constant and efficient activity of technical assistance in products support to the customers.

Our technicians are constantly engaged in research and development, in order to create strategically advanced products and, above all, are always tuned on environmental regulations and public liability.

### **Italkem S.r.l.**

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## **MARINE DIVISION**

Italkem collaborated with some of the world's most important shipbuilding companies such as Carnival Cruise Line, carefully following the marine industry, refining all process cycles in this field. Using the extensive knowledge acquired during these important experiences, Italkem is able to present its new **MARINE DIVISION**, which may already include a wide range of products:

*CONCRETE FOUNDATIONS, RESINOUS FOUNDATIONS, PRIMERS, ADHESIVES / SEALANTS, FINISHINGS, ANTI-VIBRATION SLEEVES, ANTI-CONDENSATION SLEEVES, SOUNDPROOFING SLEEVES AND CABLE MANAGEMENT PROVISION MORTAR.*

### CONCRETE FOUNDATIONS

#### **NAVIFLEX STONE**

Water-based screed coat for marine use, consisting of a special mixture of cements and selected fillers with controlled particle size, with the addition of resins and cellulose, characterized by high mechanical strength and good elasticity. **NAVIFLEX STONE** provides excellent strength and workability. Also available in waterproof version for humid rooms such as kitchens, engine rooms, bathrooms etc.

(Using in Floating Floor cycle). For thicknesses from 0 to 30 mm.

#### **NAVIFLEX STONE / F**

Self-levelling powder constituted by a special mixture of cements and selected fillers in controlled particle size, additioned by resins and celluloses, characterized by high mechanical strength and good elasticity. For thicknesses from 0 to 30 mm. Suitable to prepare **NAVIFLEX STONE** surface to the laying with PVC, amtico, rubber, etc.

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### RESINOUS FOUNDATIONS

#### **NAVIFLEX**

High quality, innovative two component epoxy-polyurethane resin. Self levelling, pourable. with high power grip and elasticity is resistant to acid, alkali, solvents and solvent wax removing as well. It's also equipped with anti-slip effect even without further dusting, given its featured high elasticity. **NAVIFLEX** does not need polyurethane finishing. Available in all RAL colourations.

#### **NAVIFLEX PU**

Two-component, hypoallergenic, resinous coating for thickness up to 8/7 mm., self-levelling and pourable, **NAVIFLEX PU** features a very good grip and high elasticity. The product is available both in floor and wall version (the wall version is more thixotropic). Being characterized by excellent workability, flexibility and quick drying, **NAVIFLEX PU** allows to finish very large areas and give access to the places in a very short time. (Also used in **NAVIFLEX PU DECOR** version for false teak). Available in all RAL colourations.

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## PRIMERS

### **EPOXI PRIMER**

Pre-dosed, two-component epoxy-polyamide primer for metals, easy to apply. It is diluted with special solvents which confer good workability and pot life to the product. Excellent grip on any surface granted by the use of particular adhesion promoters and good workability even in very low or excessively high climatic conditions. Apply **EPOXI PRIMER** also on surfaces with restricted presence of calamine.

### **PRIMER C**

One-component primer based on environmentally friendly, new generation eva and vinylic copolymers. Suitable for marine use like adhesion promoter on screed coats (as our **NAVIFLEX STONE**) and cementitious self-levelling or smoothing compounds as **NAVIFLEX STONE / F**.

### **PRIMER CL**

One-component, environmentally suitable primer, based on acrylic copolymers and butadiene. This product is suitable for marine use as adhesion promoter on steel and **NAVIFLEX STONE** screed coat. **PRIMER CL** allows the adhesion of metal-based products on fresh cement drastically reducing waiting times.

## ADHESIVES/ SEALANTS

### **NAVIFLEX /A**

Two-component epoxy-polyurethane adhesive specific for bonding, both indoor and outdoor, civil and sports rubber flooring, textile, PVC, amtico flooring, linoleum, polystyrene, polyurethane, asbestos cement, wood, laminates, stone, marble, ceramics, sheet metal, aluminium, etc. **NAVIFLEX** grants excellent elasticity and grip power, through the use of innovative adhesion promoters and the high percentage of polyurethane resin inserted in the formulation, particularly suitable for use even on non-absorbent substrates.

**Used in the area between containment coaming and bridge, and in any case, all wetlands and standing waters (kitchen, bathroom, engine room etc.).**

### **NAVIFLEX PU/A**

Two-component epoxy-polyurethane adhesive specific for bonding, both indoor and outdoor, civil and sports rubber flooring, textile, PVC, amtico flooring, linoleum, polystyrene, polyurethane, asbestos cement, wood, laminates, stone, marble, ceramics, sheet metal, aluminium, etc. **NAVIFLEX PU/A** grants excellent elasticity and grip power, through the use of innovative adhesion promoters and the high percentage of polyurethane resin inserted in the formulation, particularly suitable for use even on non-absorbent substrates.

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### **ECOFLEX**

One component polyurethane sealant, solvents and volatile substances free. Product recommended for operators sensitive to amines or other chemical substances which can cause skin irritation. Suitable for bonding and sealing mosaics, tiles, PVC, rubber, on specially treated metal sheet directly.

### **ECOFLEX SIL**

One-component hypoallergenic silane sealant, solvent, amines and volatile substances free, with excellent adhesion and elasticity. The product is not regulated by any prescription or parameter as it has no labelling of risk. Suitable for sealing in general, on various substrates without the use of primers adhesion.

### **ACRIL G**

Single-component adhesive based on acrylic resins in water dispersion for bonding rubber floor coverings, PVC, linoleum, vinyl wall. For internal use only.

### **ACRIL M**

One-component adhesive based on acrylic resins in water dispersion for bonding textile floor coverings, carpets, needle punched textiles in general. For internal use only. Also provided in version for walls.

### **GRANIKEM 2C**

Two-component fast-setting cementitious adhesive, for bonding tiles, marble and stone materials in general. The product is available in grey or white colour.

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### **ITALFLEX**

One component cementitious adhesive for bonding tiles, marble and stone in general. It is also suitable for spot bonding of insulating materials such as expanded polystyrene, rock wool, glass wool and acoustic panels.

### **TRANSPARENT SILOKEM**

Transparent silane adhesive / sealant for bonding or sealing components in various aspects, such as skirting wood, mirrors, insulating materials, porcelain, enamel surfaces, stainless steel and anodized aluminium, etc.

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## FINISHINGS

### **NAVIFLEX PU-F**

Two-component, high strength, solvent based polyurethane finish, available in glossy, semi-gloss, satin and matte shades. The product can be supplied on request in RAL or transparent version.

Mixing component A with component B a fluid, easy to apply fluid product is obtained. Once hardened, it forms a film with excellent resistance to abrasion, cleaning agents and UV rays. (Also used in false teak cycle in **POLISH MARINE** substitution).

### **NAVIFLEX PU-F-C2**

Polyurethane water based paint with very high coverage. Excellent resistance to abrasion and scouring. Indicated as a finishing cycle for inside or outside resin floors even under heavy traffic. (Also used in false teak cycle in **POLISH MARINE** substitution).

### **POLISH MARINE**

Resins and waxes mixtures in water basis, with self-polishing, preservatives and biodegradable surfactants over 90%. Particularly useful as a layer of protective finish or maintenance in technical resinous cycles as **NAVIFLEX PU DECOR**.

## ANTI-VIBRATION SLEEVES, ANTI-CONDENSATION SLEEVES, SOUNDPROOFING SLEEVES AND CABLE MANAGEMENT PROVISION MORTAR

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### **NAVIFLEX PU/V**

Modified two-component polyurethane product, characterized by excellent elasticity, toughness and workability. Suitable for soundproofing and ANTI-vibration treatments of floors, walls and ceilings. Particularly suitable as anti-condensation. Is applied indifferently on cementitious substrates, steel, iron, or wood without the use of grip primers.

NB: the product has been approved for use in high-speed trains.

### **NAVIFLEX – PC**

Two-component polyurethane mortar indicated for cables and pipes passage, characterized by a good thixotropy, workability and accelerated drying time. The product, after ageing, maintains its elasticity and resistance to adhesion.

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## **TECHNICAL CYCLES PROPOSED FOR YOUR FLEETS**

### **JOGGING TRACK**

- Metal sheet treatment with our **EPOXI PRIMER** with a sprinkling of dried quartz sand, specific to steel supports and suitable to allow adhesion with resins subsequently spread out.
- Apply **NAVIFLEX PU** resin with thickness of 4/5 up to 30 mm. with addition of decorative additives and / or non-slip additives as rubber coloured filled or coloured chips/flakes (various granulometry).
- Apply **NAVIFLEX PU – F** finishing resin, transparent and non-yellowing.

### **LOADING ZONE AND STORE AREAS**

- Metal sheet treatment with **EPOXI PRIMER** with a sprinkling of dried quartz sand, specific to steel supports and suitable to allow adhesion with resins subsequently spread out.
- Apply our epoxy - polyurethane **NAVIFLEX** resin, with thickness of 3/4 up to 8/10 mm., with the desired colour.
- N.B.: It is possible adding in this resin rubber charges, coloured chips or P.V.C. flakes.

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### **ENGINE ROOMS AREAS. FLOATING FLOOR CYCLE**

- Proceed with a thorough cleaning and degreasing of the metal sheet, using a flexible metal hose and a wire brush, in order to obtain a suitable surface for the subsequent treatment. If necessary, degrease with **CLEANER LAMIERA**.
- Priming all parts through the application of our two component epoxy-polyamide product **EPOXI PRIMER** (about 250 g. / mq) with a subsequent dusting of quartz sand.
- Once dry, proceed with laying the elastic polyurethane two-component membrane called **NAVIFLEX PU/V**, at a rate of about 3.9 Kg. / mq equal to about 3 mm. of thickness.
- Laying the rock wool for about 40 mm. thickness and cover with the metal sheet.
- Proceed with a thorough cleaning and degreasing of the metal sheet, using a flexible metal hose and a wire brush, to obtain a suitable surface for the subsequent treatment. If necessary, degrease the part with **CLEANER LAMIERA**.

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- Once dry, proceed with laying the elastic polyurethane two-component membrane called **NAVIFLEX PU/V**, at a rate of about 3.9 Kg. / mq equal to about 3 mm. of thickness.
- Apply the metal sheet , when the product is still wet, then proceed with a thorough cleaning and degreasing. Then primed by applying our two-component epoxy-polyamide **EPOXI PRIMER**, in the ratio of approximately 250 gr. / mq and after that, dusting the parts with quartz sand.
- Lay **NAVIFLEX PU** with a lightened selected charge of minimum 10 up to 40 mm. thickness. Sealing the perimeter with **NAVIFLEX PU/V** for ensuring adequate elasticity of the cycle also on the surrounding walls

## DECK AREA WITH FAUX TEAK CYCLE

### **NAVIFLEX PU/TEAK**

Two-component, hypoallergenic, resinous teak effect coating, for thickness from 2,5 to 6 mm., self-levelling and pourable, **NAVIFLEX PU TEAK EFFECT** is equipped with a very good grip and high elasticity. Being characterized by excellent workability, flexibility and quick drying, **NAVIFLEX PU TEAK EFFECT** allows to finish very large areas in a short time and gives access to the places in a very short time. **NAVIFLEX PU TEAK EFFECT** is suitable for covered decks, abandon ship stations, corridors, evacuation stations and external escape routes, accommodation and public areas, external and internal high quality areas.

The final cycle is characterized by an anti-slip coefficient on dry and wet surfaces.

- Metal sheet treatment with our **EPOXI PRIMER** with a sprinkling of dried quartz sand, specific to steel supports and suitable to allow adhesion with resins laid subsequently.
- Apply **NAVIFLEX PU** resin with 5 mm. thickness with addition of lightened charge for **NAVIFLEX PU**.
- Apply **NAVIFLEX PU** resin 5/6 mm, without charge, with RAL finishing on request.
- Apply **NAVIFLEX PU BLACK COLOUR** for sealing joints properly created for teak effect.

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- Treatment with our liquid wax component **POLISH MARINE 15/25** ml. / mq. with a good anti-dirt power, good resistance to foot traffic and weather, including salty environments. It is recommended to use also as a maintenance product with terms appropriate to the type of situation.
- Treatment with our sanitizing **SAFIKEM 2012** for the disinfectant cycle ,preventives for cutaneous formations like warts and fungi. Particularly recommended in places adjacent to swimming pools, bathrooms and showers.

### **CONTACTS:**

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