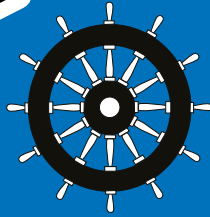




Ultraplan Marine Fire



0474

Self-levelling, fibre-reinforced cementitious mortar for soundproof floating floor systems and for levelling off areas of internal decks with intense traffic

WHERE TO USE

Ultraplan Marine Fire is used on internal decks to make soundproof floating floors and before installing floor coverings (tiles, resilient flooring, resin flooring, etc.).

Ultraplan Marine Fire is also used to level off internal decks not exposed to water that are subjected to high levels of mechanical stress.

Ultraplan Marine Fire is applied in single layers from 3 to 30 mm thick and may be used in all areas which are not exposed to water.

TECHNICAL CHARACTERISTICS

Ultraplan Marine Fire is a grey coloured powder made from a mixture of special rapid-hydrating cement, selected aggregates, resin, fibres and special additives according to a formulation developed in the MAPEI laboratories. Mix **Ultraplan Marine Fire** with water prior to application. It forms hi-flow, rapid-hardening and drying, self-levelling mortar which is easy to apply with both hand tools and a mortar pump. We recommend checking the level of residual moisture in the hardened layer of mortar to make sure it is compatible with the floor covering to be applied.

RECOMMENDATIONS

- Do not add water to the mix once it starts to set.
- Do not add lime, cement, gypsum or any other type of substance or compound.

- Do not use for external applications.
- Do not use the product at temperatures lower than +5°C.

APPLICATION PROCEDURE

Preparation of the bonding surface

Remove all traces of oil, grease, rust, paint, powder, crumbling material and any other compounds or substances that could affect adhesion from the bonding surface.

Apply a thin, even coat of **Eco Prim Marine** on the clean, dry surface with a brush or roller without leaving pools of primer on the surface.

When **Eco Prim Marine** is dry (approximately 35-40 minutes) apply **Ultraplan Marine Fire**.

PREPARATION OF THE MIX

Pour approximately 4.5-5.0 litres of clean water into a clean container large enough to hold the mix. Pour the contents of a 25 kg bag of **Ultraplan Marine Fire** into the water while mixing and keep mixing with an electric mixer at low-speed to form a smooth, lump-free, self-levelling compound. Prepare larger quantities of **Ultraplan Marine Fire** in a mortar mixer. Leave the mix to stand for 2-3 minutes, mix again for a few seconds and spread the mortar. Apply the mortar within its specified open time. The open time of the mortar will be shorter if the temperature is higher than +23°C. In such cases only mix quantities

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Consistency:	fine powder
Colour:	grey
Density (kg/m ³):	1,300
Dry solids content (%):	100
APPLICATION DATA (at +23°C and 50% R.H.)	
Mixing ratio:	18-20 parts of water per 100 parts in weight of Ultraplan Marine Fire
Applied thickness per layer:	from 3 to 30 mm
Self-levelling:	yes
Density of the mix (kg/m ³):	2,050
pH of mix:	approx. 12
Application temperature:	from +5°C to +35°C
Workability time:	30-40 minutes
Setting time:	50-70 minutes
Set to foot traffic:	3 hours
Waiting time before bonding flooring:	1-3 days, depending on thickness and surrounding temperature
FINAL PERFORMANCE	
Compressive strength (N/mm ²): - after 1 day: - after 7 days: - after 28 days:	20 27 35
Flexural strength (N/mm ²): - after 1 day: - after 7 days: - after 28 days:	3.5 5.0 8.0
Taber Test (H22 - 500 g - 200 revs):	1.2
Density of hardened product (kg/m ³):	1850
CERTIFICATION	
IMO Res. A 799(19) and MSC Res. 61(67) annex 1, part 1 and annex 2:	non-combustible
EMICODE:	EC1 R Plus - very low emission

of **Ultraplan Marine Fire** that will be applied within 30-40 minutes.

APPLICATION

Spread a single layer of **Ultraplan Marine Fire** from 3 to 30 mm thick with a metal trowel or a spreader. Check the consumption rate of the product during spreading to make sure the thickness required is applied.

Ultraplan Marine Fire may also be applied with a mortar pump.

For layers thicker than 30 mm, or if a second layer is required, we recommend applying it as soon as the first layer sets to foot traffic. If this time limit is exceeded, apply a coat of **Eco Prim Marine** before the second layer to promote adhesion.

Ultraplan Marine Fire is suitable for bonding various types of floor covering. Always adhere to the specified drying time of the product:

- **1-3 days** (depending on thickness) for resilient, textile, stone sensitive to moisture and resin;
- after **24 hours at +23°C** for tiled flooring.

These times vary, depending on the thickness of mortar applied, the surrounding temperature and the level of humidity in the environment.

Cleaning

Remove **Ultraplan Marine Fire** from hands and tools while still wet with water.

CONSUMPTION

The consumption rate for **Ultraplan Marine Fire** is 1.7 kg/m² per mm of thickness.

PACKAGING

Ultraplan Marine Fire is available in 25 kg bags.

STORAGE

Ultraplan Marine Fire remains stable for 12 months if stored in a dry place. If stored for longer periods it may take longer to set but without affecting its final characteristics.

The product complies with the conditions of Annex XVII to Regulation (EC) N° 1907/2006 (REACH) - All. XVII, item 47.

CERTIFICATION

Ultraplan Marine Fire is certified: **“non-combustible”** according to IMO Res. A 799(19) and MSC Res. 61 (67) annex 1, part 1 and annex 2.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

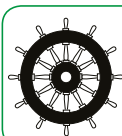
Ultraplan Marine Fire contains cement that when in contact with sweat or other body fluids causes irritant alkaline reactions and allergic reactions to those predisposed. It can cause damage to eyes. It is recommended to wear protective gloves and goggles and to take the usual precautions for handling of chemicals. If the product comes in contact with the eyes, wash immediately with plenty of clean water and seek medical attention. For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the **Technical Data Sheet**, available from our website www.mapei.com



This symbol is a conformity mark which prove that the product is suitable for marine equipment in compliance with the **Marine Equipment Directive (MED) 96/98/EC** and subsequent amendments. For the products with this marking, MAPEI is also allowed to affix the U.S Coast Guard approval number as allowed by the "Agreement between the European Community and the United States of America on mutual recognition of certificates of conformity for marine equipment" signed February 27th, 2004.



This symbol is used to identify Mapei products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.



Our Commitment To The Environment
MAPEI products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.

All relevant references for the product are available upon request and from www.mapei.com

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BUILDING THE FUTURE

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