

Novoplan DA

Fast hardening self-levelling smoothing compound for thicknesses from 1 to 10mm

WHERE TO USE

- **Novoplan DA** is used for levelling and smoothing new or existing substrates and provides an underlayment for receiving PVC, linoleum, rubber, cork, textile and non-woven flooring in areas where a good resistance to loads and traffic in offices and public areas is required.
- **Novoplan DA** must only be used in interior conditions in thicknesses from 1 to 10 mm.

SOME APPLICATION EXAMPLES

- Smoothing of concrete slabs and cementbase screeds or **Topcem**, **Topcem Pronto**, **Mapecem** or **Mapecem Pronto** screeds.
- Smoothing of anhydrite screeds.
- Smoothing of under-floor heating installations.
- Smoothing over existing ceramic tile, terrazzo, natural stone and magnesite floors.

TECHNICAL CHARACTERISTICS

- **Novoplan DA** is a grey powder comprising of special fast-setting and hydrating cements, specially graded silica sand, special resins and additives prepared and developed in the MAPEI research laboratories.

- When mixed with water, **Novoplan DA** becomes a very fluid, easily workable mix with excellent self-levelling properties and cures rapidly.
- **Novoplan DA** can also be applied with an appropriate pump.
- **Novoplan DA** is strong enough to withstand wheel-chair traffic.
- **Novoplan DA** can be applied in thicknesses up to 10 mm per single coat without significant shrinkage that might cause cracks or crazing.
- Once completely dry **Novoplan DA** has good compressive and flexural strength as well as resistance to impact and abrasion.
- Flooring can be installed once **Novoplan DA** has dried, 3 days, depending on the thickness, temperature and moisture of the environment.

RECOMMENDATIONS

- Do not add more water to the mix once it has begun to set.
- Do not add lime, cement or gypsum to the mix.
- Do not use for smoothing in exteriors or for substrates subject to rising damp.

TECHNICAL DATA (typical values)		MAC
PRODUCT DETAILS		
CONSISTENCY:	Fine powder	
COLOUR:	Grey	
BULK DENSITY (g/m ³):	1,300	
DRY SOLIDS CONTENT (%):	100	
APPLICATION DATA at +20°C and 50% R.H.		
MIXING RATIO:	approximately 24-25 parts water for 100 parts by weight of Novoplan DA	
THICKNESS PER COAT (mm):	from 1 to 10	
SELF-LEVELLING:	good	
DENSITY OF MIX WITH WATER (kg/m ³):	2,000	
PH OF MIX:	approx. 12.5	
APPLICATION TEMPERATURE RANGE:	from +5°C to +30°C	
POT LIFE:	approx. 20-30 minutes	
SETTING TIME:	INITIAL	100-200 minutes
	FINAL	150-250 minutes
SET TO LIGHT FOOT TRAFFIC:	6 hours	
WAITING TIME BEFORE SUBSEQUENT BONDING:	3 days	
FINAL PERFORMANCES		
COMPRESSIVE STRENGTH (EN 196) (N/mm ²): – AFTER 28 DAYS:	30.0	
FLEXURAL STRENGTH (EN 196) (N/mm ²): – AFTER 28 DAYS:	7.0	

- Do not apply another coat of **Novoplan DA**, once the previous one has dried completely, without first applying diluted **Primer G** (1 part by weight of **Primer G** diluted with 3 parts water).
- Do not use **Novoplan DA** at temperatures below +5°C or above +35°C.
- Not suitable for installing wood and parquet floor and wall coverings.
- Do not apply **Novoplan DA** in thicknesses less than 1 mm.
- Do not use for levelling over wooden substrates.

APPLICATION PROCEDURE

Preparing the substrate

- The substrates must be dry, solid, free from dust, loose materials, paints, wax, oils, rust and traces of gypsum.
- Cement based surfaces which are not sufficiently solid must be removed, or wherever possible, consolidated with **Prosfas**, **Primer EP** or **Primer MF**.
- Cracks or crazing in substrates must be repaired with **Eporip**.
- In order to fix dust and to provide uniform absorbency of the substrate, dusty or very porous concrete surfaces must be treated with a coat of **Primer G** (1 part **Primer G** with 3 parts of water) or with **Livigum** (1 part **Livigum** with 5 parts water).
- Anhydrite screeds can be levelled with **Ultraplan** only after the application of a coat of **Primer G** or **Primer EP**.
- On existing ceramic or natural stone surfaces apply a coat of **Mapeprim SP** after the surfaces have been cleaned with detergents and mechanically abraded. Level before **Mapeprim SP** has dried completely (it must still be tacky).

Preparing the mix

While mixing with a low speed electric mixer, pour a 25kg bag of **Novoplan DA** into a bucket containing 6-6.25 litres of clean water and mix until a uniform lump-free paste is obtained. Larger quantities of **Novoplan DA** can be prepared in suitable mortar mixers. Let the mix stand for several minutes before remixing for a short time, the mix is then ready to be applied. The amount of mixed **Novoplan DA** must be used within 30

minutes (at a temperature of +23°C).

Applying the mix

- Apply **Novoplan DA** in a single coat from 1 to 10 mm thick with a large metal trowel or a squeegee, keeping the trowel slightly inclined to obtain the desired thickness.
- **Novoplan DA** can be also applied with a suitable pump.
- When a second coat is required, it is recommended to apply it as soon as the previous coat is set to light foot traffic (approx. 6 hours at +23°C).

Installing the flooring

- Once **Novoplan DA** dries, resilient, textile- and ceramic flooring can be installed over it.
- All of the MAPEI adhesive products are designed to be applied over **Novoplan DA**.
- Waiting time before installation can vary according to the humidity and ambient temperature, and the thickness and type of flooring to be installed (from 24 to 48 hours).

Consumption

1.5 kg/m² per mm of thickness.

Cleaning

While it is still fresh, **Novoplan DA** can be removed from tools with water.

PACKAGING

Novoplan DA is available in 25 kg bags.

STORAGE

- 8 months in a dry and cool place and unopened packing.
- **Novoplan DA** could, over time, have a shortened setting time, however this will not affect its performance in service.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Novoplan DA 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.

When applying the product, use protective gloves and goggles and take the usual precautions for handling chemicals. If the product comes in contact with the eyes or skin, wash immediately with plenty of water and seek medical attention.

Novoplan DA



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 this product.

**All relevant references
for the product are available
upon request and from
www.mapei.co.kr**



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