

TECHNICAL DATA: DIA SOL

DIA SOL Single Component Nano Coating

Product Description

- DIA SOL is a single component, ready to use, impregnation Nano Coating for mineral based surfaces. This next generation coating is formulated to enhance the beauty of Politura Micro Cement without the obvious glare of inferior sealers.
- DIA SOL can be used on high quality, commercial concrete slabs for an un-pigmented finish. Impregnation with DIA SOL will not change the colour of the host product.
- DIA SOL increases the surface hardness and chemical resistance of the slab.
- Treated surfaces have splash resistance to Red Wine, Coffee, Oil and diluted house hold chemicals. Any spills should be wiped up immediately. For increased surface stain resistance contact our technical department.
- A product feature is that it should be buffed once completely dry to a semi-gloss surface to give the appearance of polished concrete.
- The product is solvent and odour free and extremely heat resistant.

Mix Ratio

No mixing required ready to use

Application Conditions and Temperature:

Minimum 5 °C - Maximum 35 °C air and substrate temperature.

Cure Schedule:

| Temperature | 10 °C | 20 °C | 30 °C |
|--------------------------|--------------------|-------------|-------------|
| Light Foot Traffic | 4 - 6 hours | 3 - 4 hours | 2 - 3 hours |
| Tack free | 90 minutes @ 20 °C | | |
| Mechanical Load | 4 days @ 20 °C | | |
| Full Chemical Résistance | 28 days @ 20 °C | | |
| Pot Life | No pot life | | |

The information contained in this technical data sheet is based on our previous experience and knowledge. It is not possible to consider every single case. Please seek technical advice for specific projects. We guarantee our product is manufactured to the specifications as stated herein. Beyond that no warranty is made, expressed or implied. We do not assume responsibility for work not carried out by us. We recommend that on-site-trials be conducted. Our "General Terms and Conditions" apply. This data sheet supersedes all previous data sheets.

Re Coat window:

One or two coat application, only apply re coat once the first coat is completely dry

Yield as a resin coating / Kg at 0.2 – 0.25 kg/m² is 4 m² to 5 m²

Package Size: Available in 5 and 25 Kg units

Shelf Life: 12 months in unopened containers. Protect from frost

Storage: Store product at normal room temperature, before using. Storage should be between 10 °C and 20 °C. Do Not Store above 35 °C. Any part used kits should be completely re sealed with tape and used as soon as possible.

Product features

- Solvent free
- No surface colour change
- Safe and reliable
- Long working life
- Hydrophobic
- Increased Water and Chemical Resistant
- Increased surface hardness
- Suitable for counter tops
- Can be polished
- Heat resistant to 280° C

Areas of Use:

- As an un-pigmented wear or seal coat
- Micro Cement applications both vertically and horizontally
- Concrete or Micro Cement counter tops

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Surface Preparation:

Ensure that the surface to be impregnated is free from all dirt, oil, dust, foreign contaminants, laitance and any previous poorly adhered coatings to the substrate.

To impregnate an area already in use it must be cleaned and stripped if necessary. Conduct a trial and evaluate the results.

Please note areas already coated with synthetic resin cannot be coated with this product.

Application

- DIA SOL is a single component and ready to use – no mixing required.
- DIA SOL should be applied in one or two coats by applying a thin coat of product to the area with a lint free roller or sprayer. DIA SOL may also be applied with a paint brush or sponge.
- The surface must be evenly saturated with impregnation fluid to the point where no more fluid is being accepted into the pores.
- The product should be applied in one direction and evenly distributed at 90° to ensure even coverage.
- Excess material and ponding must be avoided.
- Before the product is dry any excess on the surface should be removed with a rubber squeegee.
- Always use new and clean rollers and ensure maximum ventilation for the water content in DIA Sol to evaporate.
- Always maintain a wet edge.
- Maintain temperatures during the application and during the curing process. Before application the product must be at the same temperature as the room in which it will be applied. The floor temperature must not be any more than 3 °C lower than the room temperature unless this will be at dew point. If a dew point situation occurs the product may spot and lead to possible failure or compromised product characteristics.
- Exposure to water should be avoided within the first 7 days. DIA SOL will not impart full stain resistance until 28 days after application although after 7 days the product will have achieved 90% of its performance level.

Polished Concrete effect

- Once the product is fully dry the impregnated surface should be lightly polished to achieve a semi gloss surface. If DIA sol is not polished prolonged foot traffic will polish the surface therefore DIA sol should not be sold as a matt sealer.

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Safety Information

- Before application of any resin the appropriate SDS must be read and strictly adhered to. Resins contain sensitising agents which can lead to severe allergic reactions.
- The Politura range is formulated without MXDA and several other of the most severe agents for sensitisation, however all safety precautions as outlined in the SDS must be carried out.

Maintenance

Please read the information sheet. Correct maintenance is vital to ensure optimum performance from your floor for years to come.

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