



INSTALLATION GUIDELINES

COLODUR 60 / PU PRIMER

MAIN MEASURES OF PRECAUTION:

- Do not apply product in case of extreme temperatures (below 5° / above 35°C).
- Do not apply product on hot or wet substrates. Ensure there is no humidity or water underneath tile surface.
- Clean thoroughly substrates before application. It is important to avoid the presence of any organic residues (dirt, moss, etc) on the substrate.
- Do not apply in case of wind.
- Do not apply if there is a risk of rain.
- Do not apply Colodur layers in different thicknesses on the same job, this may result in thick up per layers shrinking and removing lower thickness layers underneath, as product crosslinks and solvent evaporates.
- Never use silicone sealants in expansion joints. It is only advised to use PU or transparent MS Polymer sealants.
- It is advised to clean areas treated with these resins using neutral cleaning products, free of acids.
- Given the very high cohesive strength of Colodur, it may separate from certain non porous substrates in the case of movement. If this happens, it is advised to conduct a clean cut, remove product concerned prepare substrate again and re-apply. It is recommended to have a 3cm overlap onto the existing coating.
- It is advised to conduct a test on areas needing waterproofing in order to make sure that proper bonding is achieved, and if the use of PU Primer is required.
- Being a self-levelling product and in order to obtain a homogeneous functioning as a waterproofing membrane on uneven substrates it is recommended to fix all joints between tiles with the appropriate sealants or cement so that thickness is as constant as possible.
- This product has been developed for use on Horizontal surfaces. On Vertical substrates, as a general rule it is imperative to conduct twice as many coatings for the same final thickness (this is, up to 6 to 7 layers for a thickness of approx. 1 mm). If the quantity of product per layer is too much, there is the threat of “ponding” the product in the bottom.
- In case of having some product left at the end of a project, it is best to transfer it to a smaller airtight metal container and store upside down. This will minimise the amount of air relative to the quantity of resin left. Note: DO NOT store in a plastic container as this will cause the product to go hard.
- Tables, chairs and other furniture must be provided with special rubber protection not to damage the membrane.

TIPS:

1. Do not apply in the heat of the day. Best to apply during the morning or afternoon
2. Mix the matting additive with a paint mixer attached to the end of a drill to ensure that all solids on the bottom of the tin are mixed completely with the liquid in the can
3. Pour 5 litres of Colodur into a bucket and once you have mixed your matting agent together pour 1 litre of the matting additive to the 5 litres of Colodur. Apply this first and once finished then repeat above steps until entire area is coated. DO NOT ADD THE MATTING ADDITIVE TO THE 20 LITRE COLODUR AS THIS WILL MAKE IT GO SOLID OVER-NIGHT.
4. Multiply coats will be required to achieve 1.5 to 2mm finished film thickness ie 3-4 horizontal 6-7 vertical
5. If ever in doubt then please call Total Waterproofing Supplies (02) 4940 3000 for advice.

COLODUR

Single component aliphatic polyurethane coating for the finish and protection of interior and exterior floors

PRODUCT OVERVIEW:

Colodur is a high performance Aliphatic PU single component resin, which cures after reaction with Atmospheric moisture, providing a tough and flexible coating with high abrasion resistance to chemical agents. It provides an excellent surface protection to surfaces submitted to intense wear. This product does not chalk or change its colour after exposure to UV radiation, so it is recommended for outside applications.

APPLICATIONS:

- Garages and parking lots submitted to heavy traffic.
- Industrial buildings and depots.
- Tiled flooring internal/external and recreational areas.
- Concrete floors in general.
- Sealing and protection of floors made easy with Epoxy, PU or other types of self-levelling mortars.

ADVANTAGES:

Being a single component product, it avoids blends and makes it's usage extremely easy, saving time, waste and mistakes.

- Excellent abrasion and wear resistance.
- Total colour stability to sun and to UV rays.
- Fast curing and re-coating.
- Good covering power.

AVAILABLE COLOURS:

Transparent (Shiny and Matt - achieved by using Rayston's Matting Additive - see data sheet).

COLODUR 60%:

Ideal in the TRANSPARENT finishing or restoration of floors with high porosity, such as epoxy multilayer systems (epoxy resin + thick granules), or antique mosaics. Recommended application is 2.5 m²/kg (0.4kg/m²), in 2 coats.

It is possible that floor absorption is different in different areas, so it may require additional coats in certain spots. The substrate to be coated must always be dry and clean. It always better to first apply a coat of PU PRIMER in order to improve adhesion (see data sheet). Product dilution and tools cleansing should be done with solvents. It is recommended to use Rayston's PU. Temperature of application is +10°C.

PACKAGING

Colodur 60% - Metal drums with 4, 9 and 20kg. Product shelf life is 12 months.

HEALTH AND SAFETY

It is important to observe usual precautions with flammable products. Please refer to the material safety data sheet for more information.



PU PRIMER

PRODUCT OVERVIEW:

In most circumstances, single component Polyurethane resins, thanks to their chemical crosslinking (as opposed to physical curing water based products), provide excellent adhesion to substrates.

However, the very high cohesion of these polymers, which have very high molecular weights, together with a total lack of penetration/zero absorption of some materials, main contribute to a lack of adhesion and eventual failure.

Some supports tend to offer more resistance to adhesion than others:

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| ▪ Tiles | ▪ Brick |
| ▪ Terrazo | ▪ Marble |
| ▪ Ceramics | ▪ Old/polished concrete |
| ▪ Glass | ▪ Stainless steel |
| ▪ Old flooring surfaces | ▪ Etc |

In these circumstances, if it is possible, it is recommended to scratch the surface slightly, creating some friction, and favouring the adhesion and compatibility between materials.

PU PRIMER:

Allows, both in the case of waterproofing membranes as well as in floorings and adhesives, to obtain high adhesion "links" between the substrate and the coating on top, so that there is a chemical anchorage between both elements.

Even though **PU PRIMER** is a product that by itself does not offer any film formation or any mechanical properties, (so it is definitely not a product to be used on its own), it does provide extreme adherence in combination with Polyurethane single component products.

NOTE:

In any case it is not recommended to apply any Polyurethane on substrates which are humid, wet, have oil stains or are greasy or dirty.

APPLICATION:

- It is important to apply the product evenly and generously on the substrate, letting it evaporate, and until the substrate becomes dry.
- Quantity recommended is approx. 150 - 200 gr/m². This product may be applied by roller / brush, or also through some spraying mechanism.
- It is not recommended to leave more than 4 hours between **PU PRIMER** application, and the following coat.

HEALTH AND SAFETY:

Flammable product. Non toxic. It is important to observe usual precautions with flammable products. Please refer to the material safety data sheet for more information.

