

FORMSEAL PU

A water based one part PU sealer for formwork and untreated wood features

DESCRIPTION

Formseal PU is a clear, penetrative, water based one part polyurethane sealer specifically developed for the concrete industry to seal formwork ply and special timber features. It is principally used to extend the life of formwork panels or wood features and to standardise absorbency in the timber. Being water based, it is a user friendly product with no harmful labelling necessary unlike many solvent borne systems on the market. It is also capable of being applied to damp timber or timber with high moisture levels, unlike solvent borne systems.

ADVANTAGES

- Greatly extends mould and formwork life by sealing of the surface wood fibres to provide an abrasion and chemically resistant coating.
- Standardises surface absorption therefore vastly reduces the effect of hydration variation staining appearing on the concrete.
- Vastly reduces the possibility of Hemicellulose (wood sugar) attack which produces a very dusty concrete surface and possibly dark staining.
- Single pack, water based product for easy application by brush, roller, or airless sprayer. Cleaning of all equipment by water only, no solvents required.
- UV stable and resistant to formwork chemical release agents, mould oils, retarders and alkali cement.
- Can be applied successfully to damp timber.
- Will not impair the bond of paints, plasters, coatings, etc when used with the correct type of release system.

PROPERTIES

Appearance:	Opaque straw colour, brushing consistency
Flash Point:	Not applicable
Freezing Point:	0°C
Storage Life:	1 Year stored above 5°C

COVERAGE

6-10m² per litre, but is very dependant on surface porosity and profile.

APPLICATION

Formwork surfaces to be treated should be clean, previously untreated with paints, oils etc. Surface moisture levels should be kept to a minimum, however, Formseal PU has very good dewatering properties, but if in doubt conduct a trial patch to test satisfactory cure and adhesion.

Prior to coating all fixing holes, knot holes and surface defects should be repaired using a suitable formwork filler such as Profill or Shuttafill .

Application should **not** be carried at temperatures below 5°C or where the temperature will fall below this before the coating as dried sufficiently.

Formseal PU is supplied ready for use , DO NOT DILUTE.

Normally only one coat is all that is required, this should be applied liberally but evenly to the form surface which should be horizontal during application.

Should a grain pattern or sawn finish be required it is important that only sufficient Formseal PU is applied to seal and penetrate the timber with no surface excess to "fill" the required surface features.

Should multiple re-use of the mould / formwork panel be of primary importance a second coat should be applied within 2-5 hours of the first.. If the first coat should have dried a light sanding to key in the second coat is good practice, and is a pre-requisite should there be a delay of over 12 hours before recoating.

All tools and equipment can be cleaned with clean water.

Treated forms need protection from rain, temperatures below 5°C and dust for a number of hours after treatment.

Forms can be used after 24 hours drying.

Repair of damaged areas can be easily achieved by sanding the area back to the timber surface and then applying another coat of Formseal PU as above.

For high quality or architectural finishes we recommend the use of a quality drying type Chemicals Release Agent such as our Formseal CRA2 .

Excessively smooth and glossy finishes on formwork surfaces can lead to increased risk of surface crazing appearing in the concrete. It can also lead to the excessive movement of the cement fines/water at the shutter face during compaction and vibration which will appear as hydration staining in the concrete. To avoid this always give the surface a light sanding to produce a semi-matt finish.

FURTHER TECHNICAL RECOMMENDATIONS

Please request our "Technical Guidance Note" explaining further the effects of Timber Hemicellulose attack on concrete, and the production of "featured, profiled and board type finishes" in concrete.



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STORAGE AND HANDLING

Protect from temperatures below 5°C

Store in accordance with Health and Safety regulations for water borne emulsions.

Keep containers sealed when not in use. If a surface skin has formed, remove skin and use as normal.

PACKAGING & TRANSPORT

Formseal PU is supplied in 5ltr and 25ltr plastic screw top drums.

Not Regulated for Road Transport

HEALTH & SAFETY

Formcoat PU is very safe to use being water based, Non-toxic and Non flammable.

Refer to separate material safety data sheet. Copies available by request.

If spraying, care should be taken to minimise inhalation and contact with eyes and ensure adequate ventilation during application.

QUALITY ASSURANCE

Direct Chemicals is a firm of assessed capability. The Company's quality system conforms to BS EN ISO 9001:2000 and is assessed by QMS International PLC. Products are manufactured under quality assured schemes

Direct Chemical products are guaranteed against defective materials and manufacture. Products are sold subject to the Direct Chemical Terms and Conditions of Sale, copies of which are available on request. Direct Chemicals endeavours to ensure that the above data and any further advice is correct, however Direct Chemicals can not accept liability for the use to which products are put or the way in which they are used. All recommendations stated by the company are made in good faith. Recommendations do not over-ride the basic obligation of the user to satisfy themselves at all times as to suitability of the product for their particular application.



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