

# FORMSEAL PU1K

Solvent based one part polyurethane sealer for formwork panels and untreated wood

## DESCRIPTION

**FORMSEAL PU 1K** is a clear, penetrative, solvent 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. It is also capable of being applied to damp timber unlike many competitor 2 part 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, solvent based product for easy application by brush or roller.
- Resistant to formwork chemical release agents, mould oils, retarders and alkali cement once cured.
- Can be applied successfully to damp timber that is surface dry.
- 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:        | 40°C                                      |
| Freezing Point:     | <0°C                                      |
| Storage Life:       | 1 Year stored above 5°C                   |
| Mechanical Cure:    | 24 hours                                  |
| Full Chemical Cure: | 72 hours                                  |
| U.V Stable:         | No - will yellow                          |

## COVERAGE

4-5m<sup>2</sup> per litre per coat, but is very dependant on surface porosity and profile.

### Norsekem Limited

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## 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 1K** has moisture tolerance 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 our **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 1K** is supplied ready for use **DO NOT DILUTE**. However for a “primer” coat the product **MUST ONLY be thinned with FORMSEAL PU THINNERS by 20%**, **DO NOT use any other form of solvent or thinners as they will not be compatible with the moisture cure system**.

Normally only two coats 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 1K** 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 30-60 minutes of the first. Test that the first coat is tacky to the touch. If the coating has dried a light sanding with coarse 80 grit paper to key in the second coat is a pre-requisite.

All tools and equipment can be cleaned with **PU CLEANER**, Acetone, or Cellulose thinners.

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 1K** as above.

For high quality or architectural finishes we recommend the use of a quality drying type Chemical Release Agent such as our **TEKNICON RANGE**.

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 very light sanding to produce a semi-matt finish.

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## STORAGE & HANDLING

Protect from temperatures below 5°C Store in accordance with Health and Safety regulations for flammable liquids. Keep away from naked flames and children. Keep containers sealed when not in use.

## HEALTH & SAFETY

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

## PACKAGING & TRANSPORT

FORMSEAL PU 1K is supplied in 5ltr metal plate screw top tins. Flammable for Road Transport

## QUALITY ASSURANCE

Norsekem Limited Products are manufactured under quality assured schemes

Norsekem Limited products are guaranteed against defective materials and manufacture. Products are sold subject to the Norsekem Limited Terms and Conditions of Sale, copies of which are available on request. Norsekem Limited endeavors to ensure that the above data and any further advice is correct, Norsekem Limited 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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