

FAMOUS SPECIALITY CHEMICALS

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Product Name: FSC UR 100

1. CHARACTERISTICS

Technology: Polyurethane
Product Type: PU Adhesive
Cure: Moisture cure
Condition: Solvent-free
Components: One-component
Application: General assembly
Color: Brown

FSC UR 100 is a solvent-free, moisture curing one component adhesive based on polyurethane. At room temperature and the required humidity in the joint sufficient strength will be obtained after approximately 2 to 4 hours.

Application Areas: FSC UR 100 is used for the binding of solid wood (especially for hard wood & tropical wood species) also for many other substrate combinations like HPL / CPL, bonding to galvanized iron or metals, bonding expanded polystyrene (sanded) to wood, stone etc. manufacture of sandwich elements with porous substrates (e.g. wood) which contain humidity. The substrates can be bonded to one another or to metals, laminated panels, various plastics, rigid foams made of polystyrene, polyurethane and others.

2. TECHNICAL DATA

Consistency: liquid
Density, g/cm³: ~1.15
Viscosity, Brookfield - RVT, 20°C, mPa.s: 5,500 to 10,500
Open Time, at 23°C, 50% rh,min: 10 to 20
Initial setting time, hrs: 2 to 4
Final setting time (23°C), hrs: 8-10
Tensile shear strength at -40 °C, MPa: >7
Tensile shear strength at 20 °C, MPa: >6
Tensile shear strength at 80 °C, MPa{ >3
N 1465 (wood / wood bonding)
Service Temperature, °C: -40 to 80

All technical data based on Internal test method.

3. DIRECTIONS FOR USE

Preliminary Statement:

Prior to use it is necessary to read the Material Safety Data Sheet for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labelling, the relevant precautions should always be observed. Please also refer to the local safety instructions and contact Famous Speciality Chemicals for analytical support.

Pretreatment:

The substrate should be clean, dry, free of dust, oil, grease and other contaminants. The usage of suitable primers on metal surfaces can improve the adhesion and/or the long-term bond stability. The surface of plastic materials should be cleaned, so as to remove any kind of release agents present on the substrate surface. An improvement of the adhesion can be achieved by grinding or sandblasting the surface.

Application:

Application Temperature: 10 to 35 °C.

FSC UR 100 is applied to the substrate by brush, spatula or doctor blade. When bonding substrates without sufficient humidity or which are not moisture permeable, the required amount of moisture has to be provided by other methods. A proven procedure is the combined spraying of the adhesive simultaneously with water in a fine mist. In the case of separate adhesive and water mist application, the water must not be sprayed onto the bare substrate but on the other substrate or ideally on the adhesive. Bonding surfaces should be brought together immediately after adhesive application, assuring sufficient contact pressure while curing, preferably in a press. Since FSC UR 100 cures by reaction with humidity, open packs/ nozzle of the pack must always be properly sealed and protected against moisture immediately after taking out the quantity needed. For the same reason we recommend using up opened pack as soon as possible.

Cleaning:

Fresh, uncured material (cleaning application equipment, substrate contamination etc.) can be removed with solvents like IPA or Acetone; cured adhesive can only be removed mechanically.

Storage:

When properly stored in a cool, dry location, with the container tightly closed when not in use, this product will have a shelf life of at least 9 months.

Recommended Storage: 15°C to 25°C. Storage below 10°C or greater than 50°C can adversely affect product properties. FSC UR 100 is frost sensitive.

4. ADDITIONAL INFORMATION

Disclaimer Note: *The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. FAMOUS SPECIALITY CHEMICALS is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law. However, we will not be held any liability caused by use of our product which is not the intended purpose of it.*