

Spectraplan Adhesives, Sealants and Cleaners

Product Data Sheet
August 2009

Adhesives and Cleaners to Complement Spectraplan TPE Single Ply

Spectrabond Low Foaming PU Adhesive

Spectrabond PU Adhesive is a ready to use, high performance, single component, moisture curing polyurethane adhesive for bonding fleece backed polymeric single ply membranes to rigid insulation and other suitable substrates. The adhesive is cold applied and has been specially developed to allow safe and rapid bonding of suitable membranes.

Application

Substrates must be clean and free from any liquid water although damp surfaces are acceptable. The adhesive should not be used in temperatures below 5°C or above 30°C as the working time will be dramatically reduced. To allow the adhesive to cure the relative humidity should be a minimum of 30%. In hot, dry conditions it may be necessary to lightly moisten the substrate with a fine spray of water prior to applying the adhesive.

The adhesive is poured onto the substrate direct from the container and spread evenly at the coverage rate specified using a roller or squeegee. The adhesive should be left open for at least 10 minutes to allow solvent to escape before rolling the single ply membrane into the adhesive and consolidating to ensure good contact. Spectrabond Low Foaming PU Adhesive cures within 6 hours.

As the product is moisture curing, ensure the cap is firmly placed on the container when not being poured from. Do not return previously decanted adhesive to the container as it will start to cure in the drum. To clean tools and splashes of wet adhesive use spirit based cleaners.

Coverage Rate

Spectrabond Low Foaming PU Adhesive is supplied in 22kg containers. Coverage rate depends on temperature and surface texture and porosity.

Surface Texture	20°C		5°C – 10°C	
	per m ²	per 22kg tub	per m ²	per 22kg tub
Smooth	250g	90m ²	350g	65m ²
Medium	400g	55m ²	500g	45m ²
Rough	500g	45m ²	600g	35m ²

Storage

In cold conditions Spectraplan Low Foaming PU Adhesive should be stored at a minimum of 15°C prior to use to aid application. If material is stored on the roof or externally the adhesive can be maintained at a usable temperature by storing in a heated tank of water.

Spectraplan Low Foaming PU Adhesive is flammable and should away from sources of ignition in original sealed containers at a temperature between 5°C and 25°C. The adhesive has a shelf-life of 3 months when stored in these conditions.

Technical Data

Chemical Type	Polyurethane
Appearance	Pink colour
Odour	Solvent
Viscosity	3000cps@20°C
Solid Content	77%

Health & Safety

Spectrabond Low Foaming PU Adhesive is a hazardous product. Wear suitable protective gloves and ensure adequate ventilation during use. Refer to the safety data sheet for Spectrabond Low Foaming PU Adhesive.

Spectrabond TPE Contact Adhesive

Spectrabond TPE Contact Adhesive is a ready to use synthetic rubber based, contact adhesive for adhering TPE roofing membranes onto various substrates. It is easy to apply using brush or roller and is specifically used to adhere Spectraplan TPE membranes to various substrates at upstands and details.

Application

TPE Contact Adhesive is suitable for adhering Spectraplan roofing membranes to various substrates including wood, steel and concrete. Substrates must be clean, dry and degreased and the adhesive must only be used in dry conditions at temperatures of at least 5°C. Condensation on surfaces must be avoided as this will greatly impair adhesion, freshly applied adhesive should be protected from draughts to prevent condensation forming whilst the adhesive is drying.

TPE Contact Adhesive should be applied to both surfaces with a brush or roller. Porous surfaces may require a second adhesive layer. The layer of adhesive applied to the substrate should be allowed to dry completely. The layer of adhesive applied to the membrane should be allowed to dry until tacky to the touch. Both applications of adhesive should be allowed to dry for a minimum of 5 minutes to allow solvents to disperse before bringing the glued surfaces together. After bonding, apply pressure to the bonded area using a hand roller.

The adhesive is not suitable for sealing lap joints. All lap joints must be hot air welded.

Coverage Rate

The adhesive should be applied to each surface at a rate of 100-200gsm (per surface) - 50m² to 25m² per 5 litre tin, depending on temperature and surface porosity.

Storage

TPE Contact Adhesive is flammable and should away from sources of ignition in original sealed containers at a temperature between 5°C and 25°C. The adhesive has a shelf-life of 12 months when stored in these conditions.

Health & Safety

TPE Contact Adhesive is a hazardous product. Wear suitable protective gloves and ensure adequate ventilation during use. Refer to the safety data sheet for TPE Contact Adhesive.

Bond and Seal Mastic

Bond and Seal Mastic is an elastic and versatile PU sealant, designed to be used with Spectraplan TPE membranes. Bond and Seal Mastic is fully compatible with Spectraplan TPE membranes and should always be used in conjunction with Bond and Seal Activating Cleaner.

Bond and Seal Mastic is suitable for use on surfaces such as brick, concrete, wood, stone and metal. Surfaces and mortar joints should be clean, dry and free from dust before application of Bond and Seal Mastic. Application temperature should be between 5°C and 35°C.

Technical Data

Chemical Type		Single component polyurethane
Appearance		White or grey mastic
Odour		Solvent
Skin Formation time		45 – 60 minutes (at 23°C, 50%RH)
Full Hardening Time		24 hours (3mm thick)
Density	DIN 53479 (prior to curing)	1.25 kg/litre
Volume Change	DIN 52451	-5% (approx)
Tensile Strength	DIN 53504	1.8N/mm
Elongation at rupture	DIN 53504	500% (approx)

Storage

Bond and Seal should be stored between 10°C and 25°C. The material has a shelf-life of 12 months when stored in these conditions.

Health & Safety

Bond and Seal Mastic is a hazardous product. Wear suitable protective gloves and ensure adequate ventilation during use. Refer to the safety data sheet for Bond and Seal Mastic.

Bond and Seal Activating Cleaner

Bond and Seal Activating Cleaner is a activating solution for use in the preparation of non porous substrates prior to using Bond and Seal Mastic. The cleaner should be used to prepare Spectraplan TPE single ply membranes before application of Bond and Seal Mastic.

Other Product Information

Full product literature is available to download from our website: www.singleply.co.uk. Amourplan is only available from SIG Design & Technology and can only be installed by an IKO Single Ply trained and licensed contractors.



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