



TRICEL

GENERATIONS OF INNOVATION

RELEASE AGENTS

Release agents are a vital part of the composite moulding process. These form a barrier between a mould and the part being manufactured. The correct release system is essential to ensure the longevity of the mould, the quality of finish of the part, whilst also maximising the numbers of parts taken from the mould.

Polyvinyl Alcohol (PVA)

Waxes

Semi-Permanent Systems

Wax / Semi-Permanent Hybrids

Release Film

Internal Release Agents

Composites Supply Partner

Focused on Product & Technical Expertise

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▶ Polyvinyl Alcohol (PVA)

Polyvinyl alcohol is available in concentrate or also as a solution in either water or solvent. It can be applied by brush, cloth, sponge or spray.

Polyvinyl alcohol based release agents are normally used on plugs and mouldings with difficult release textures, such as stone, slate, lead and timber. It can be used as a secondary release agent suitable for use on metal and glass reinforced plastic (GRP) composite moulds.

▶ Semi-Permanent Systems

Semi-permanent sealers and release agents come in both a water or solvent base and work by forming a micro film on the surface of the mould. These sealers are made from a mixture of polymeric resin in a carrier solvent. Once applied to a mould surface the solvent evaporates, leaving a resin film.

Semi-permanent release agents allow for multiple releases from a mould, making them ideal for high volume production processes such as resin transfer moulding (RTM).

Benefits include a minimal styrene build-up or transfer of the release agent.

▶ Release Film

Cellophane or polyester film is used as a release medium, allowing fast lay-up.

Traditionally used as a release in the manufacture of flat panel, translucent sheets and filament winding.

▶ Waxes

Wax products are the most commonly used release agents in the open mould process.

Among the advantages of the wax release agents are their ease of use, convenience and economy. For a full list of wax release agents please contact our sales team.

▶ Wax / Semi-Permanent Hybrids

Hybrids are a mix of wax and semi-permanent release agents. This allows for the ease of use of a wax while also having the multi-release characteristics of a semi-permanent system.

▶ Internal Release Agents

Internal release agents are used mainly in high volume manufacturing processes such as pultrusion, RTM, sheet moulding compound (SMC) and dough moulding compound (DMC) hot press moulding techniques.

These release agents are dissolved in the resin mix, and during the curing process migrate to the surface forming a film barrier between the mould and the part being produced. These can be used in conjunction with both gelcoated or non-gelcoated compounds.

**We stock a full range of Release Agents.
Contact us today to discuss your requirements.**

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