

Release

DOW CORNING® 7

Release agent

Polydimethylsiloxane polymer

FEATURES

- Heat stable; withstands molding temperatures up to 200°C (392°F)
- Minimises build-up on molds due to heat stability and resistance to oxidation
- Efficient - low quantities required
- Inert to metals and most plastic and organic materials
- Insoluble in water, methanol, ethanol, glycerol and mineral oil

APPLICATIONS

DOW CORNING 7 Release Agent has been formulated for use in many applications. Its features and properties indicate many uses including the following:

Rubber industry:

- Break-in treatment for bladders on tyre presses.
- Lubricant and preservative for tight fitting parts: they slide into place quickly and easily.
- For difficult release jobs, e.g. battery cases.
- Spraying the molds with a 3% dispersion of DOW CORNING 7 Release Agent in perchloroethylene gives clean, easy release.

Plastics industry:

- Release agent for epoxy resins, polystyrenes, PVC, polyesters and other plastic materials.
- Release agent on polished dies for embossing vinyl sheeting, calendar rolls and other applications ranging from epoxy electrical coils to polyester luggage.

Foundry and smelting industries:

- Breaking-in of new or freshly cleaned shells, for core molds.
- Release agent for work tables and cutting tools in welding and metal work.

Other industries:

- Release agent for TNT, rocket propellants, ram heads and other parts of extruders.
- Release agent in forming integral seals for clay tiles.
- Release agent for glues and adhesives on saw blades, presses, heating bars, edge gluer chains, platens, etc.

TYPICAL PROPERTIES

Specification writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales representative prior to writing specifications on this product.

CTM*	Parameter	Unit	Value
0176	Appearance		White, translucent grease
0191	Consistency, penetration unworked	mm/10	250
	Consistency, penetration worked	mm/10	270
0001	Specific gravity at 25°C/16°C (77°F)/(60°F)	g/ml	1.1
0033	Bleed 24 hours/200°C (392°F)	%	7
0033	Volatility 24 hours/200°C (392°F)	%	2

* CTM: Corporate Test Method, copies of CTMs are available on request.

HOW TO USE

DOW CORNING 7 Release Agent may be applied by brushing or wiping. Diluted DOW CORNING 7 Release Agent may be applied by brushing, wiping or spraying. Suitable solvents (diluent) include, xylene, mineral spirits, perchloroethylene and methyl ethyl ketone.

Users are recommended to establish the best concentration and application method on a small scale prior to commercial use.

Finishing the molded article

Any possible contamination caused by small quantities of DOW CORNING 7 Release Agent transferring to the moulded part is overcome by cleaning the part with solvent or detergent or immersion in an alcoholic potassium hydroxide (followed by rinsing with clear water) before finishing (painting, sticking etc.).

HANDLING PRECAUTIONS

DOW CORNING 7 Release Agent may cause slight temporary discomfort if accidentally rubbed into the eyes. It is essentially non-irritating to the skin.

When using solvents, avoid heat, sparks and open flame. Always provide adequate ventilation. Obtain and follow handling precautions from the solvent supplier.

Product safety information required for safe use is not included. Before handling, read product and safety data sheets and container labels for safe use, physical and health hazard information. The material safety data sheet is available on the Dow Corning website at www.dowcorning.com. You can also obtain a copy from your local Dow Corning sales representative or Distributor or by calling your local Dow Corning Global Connection.

USABLE LIFE AND STORAGE

When stored at or below 25°C (77°F) in the original unopened containers, this product has a usable life of 60 months from the date of production.

PACKAGING

This product is available in cartons of 10x100g and 5kg containers.

LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

HEALTH AND ENVIRONMENTAL INFORMATION

To support Customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, www.dowcorning.com or consult your local Dow Corning representative.

LIMITED WARRANTY INFORMATION - PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that Dow Corning's products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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