



im

RELEASE AGENTS
FOR PANEL MANUFACTURING

impress

THE DECOR COMPANY

USE

The impress iCR-product range contains release agents for manufacturing chipboard, MDF/HDF-boards and OSB boards.

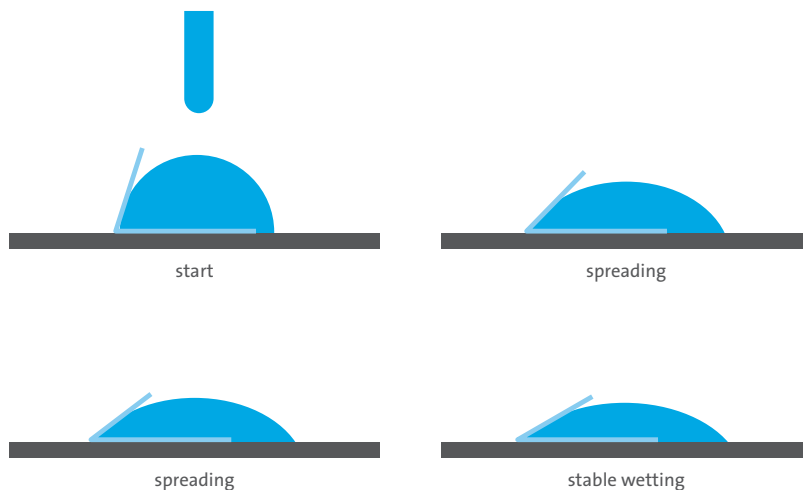
ADVANTAGES

As every manufacturing-system is complex and unique, we are able to adapt the base formulation according to the current requirements:

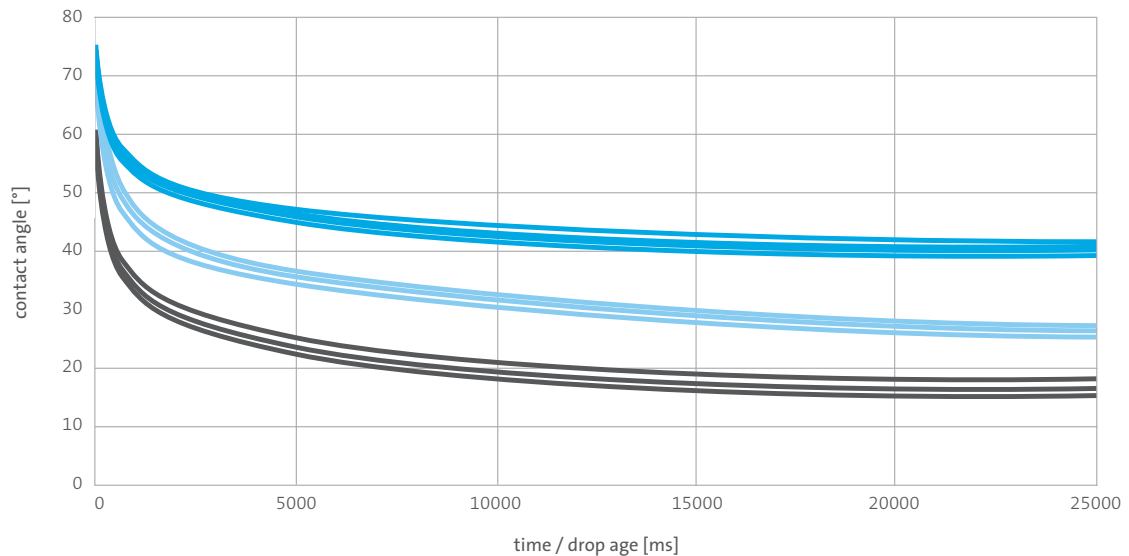
- Inhibition against microbial activity
- Adaption of foam formation
- Adjustment of viscosity and wetting behaviour for optimum application with all systems (roller system, WEKO system, spraying system)

- All our release agents are VOC-free.
- All our release agents are water compatible and can be diluted according to the requirements.
- Tested stainless steels are fully resistant.
- All our release agents are in accordance with national and international health and safety regulations.

One important parameter is the interaction between the release agent and the surface of the press belt. With know-how and specific equipment, it is possible to adjust the surface-active properties according to individual needs. Consequently, the adjustment for different machinery and especially applying-system (spraying, roller) can be done precisely.



Contact angle measurements on pressbelt



● Release agent competitor ● Impress release agent standard ● impress release agent optimized

OVERVIEW PRODUCT PORTFOLIO

iCR940 series: standard release agent for MDF/HDF/chipboard production

iCR950 series: release agent with increased release power especially for chipboard production, typical use with UF and MUF glue

iCR960 series: release agent with increased release power especially for MDF/HDF production, typical use with UF and MUF glue

- On the mat
- On the steelbelt
- On the mat formation belt

Your benefits:

- Sticking to the belt is reduced and avoided
- Dirt build up is reduced
- The static effect is reduced
- The belt is easier to clean
- The performance of the spraying system is improved
- Wettability with water is improved
- Reduction of contamination during further processing on asymmetric coating

iCR970 series: release agent for pMDI-based typical OSB or MDF -production

is an external release agent developed exclusively for use with isocyanate glues. It is suitable for high requirements on release and cleaning activity. It is compatible with all grades of dilution water. The wetting properties are optimized and it is suitable for roller and spraying application.



with impress iCR971
(clean steel band without gluing)



without impress products
brown steel belt with adhesive flakes (bad function)



with impress iCR971
(clean steel band without gluing)



without impress products
brown steel belt with adhesive flakes (bad function)

SPECIFICATIONS

	iCR940 series	iCR950 series	iCR960 series	iCR 970 series
Form	liquid	liquid	liquid	liquid
Density [g/cm³]	1,0-1,1	1,0-1,1	1,0-1,2	1,0-1,1
pH	neutral to alkaline	neutral to alkaline	neutral to alkaline	neutral to alkaline
Application	MDF/HDF/ chipboard with standard requirements	chipboard with higher requirements	MDF/HDF with higher requirements	pMDI-based OSB and other application with highest requirements e.g. formaldehyde free MDF or PB
Glue-type	UF / MUF glue	UF / MUF glue	UF / MUF glue	all glue types especially pMDI

Investigation on pitting corrosion of stainless steel in impress iCR-release agents

To assure full compatibility of impress release agents with the pressbelt, immersion tests were accomplished by the Montanuniversität Leoben, Department Metallurgy. In this regard, interaction of iCR-series with stainless steel type 1.4571 and contibelt CB 680 SGM were tested.

Immersion tests did not result in any corrosive attack of the investigated materials. No significant attack and no pitting corrosion was detected. With corrosion rates lower than 0,0035 mm/year, the tested steel types can be considered as fully resistant against the iCR-release agents.

The full report is available upon request.

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Material safety datasheet and technical datasheet of all products are available upon request. We are able to adapt all our base formulations according to your needs. For further information, please contact us.



For further information

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