

HEUCOFLASH™
LQ1 & LQ2
**INNOVATIVE FLASH
RUST INHIBITORS**

BRIGHTER COLORS.
BRIGHTER LIFE.

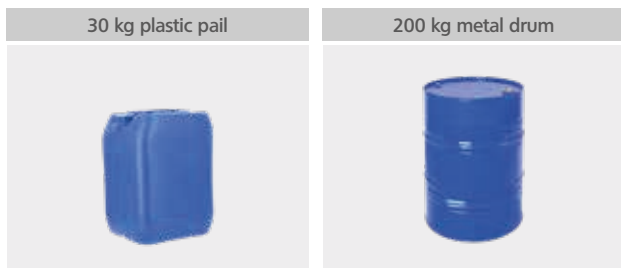
HEUCOFLASH™ LQ1 and HEUCOFLASH™ LQ2

There are two versions, **HEUCOFLASH™ LQ1** and **HEUCOFLASH™ LQ2**, both are clear yellowish water based solutions of organic and inorganic compounds and salts.

HEUCOFLASH™ are VOC free liquid flash rust inhibitors that can be added during any step of manufacturing by simply stirring in.

Product	HEUCOFLASH™ LQ1	HEUCOFLASH™ LQ2
Description	Yellow liquid	Yellow liquid
Chemical description	Solution of Nitrite containing inorganic salts	Solution of inorganic and organic salts
Dosage rate (of liquid coating weight)	0.3 % - 1.5 %	0.3 % - 1.5 %
Substrates	Ferrous and galvanized steel	All metal substrates
Binder systems	Waterborne resins	Waterborne resins e.g. epoxies or acrylics
Labelling	Free up to 1 %	Free at any recommended dosage level

Both products are offered in three package types: 30 kg plastic pails, 200 kg metal drums and 1000 kg IBC container, standard in PE.



Analytcs

Analytical Tests	HEUCOFLASH™ LQ1	HEUCOFLASH™ LQ2
Density (g/cm ³)	typ. 1.1	typ. 1.1
Storage condition	frost free	> 5°C
pH value	typ. 7.5	typ. 8.0
Viscosity [max. cps]	typ. 30	typ. 30
VOC	free	free
Miscibility	Miscible up to in 5 % Water, Ethanol, Ethylene Glycol, Butyl glycol, DPM	

Application Technological Properties

We have done several tests comparing water based DTM systems and standard primers to show the effect of the **HEUCOFLASH™** products and results are available in our selection of guiding formulations.

The tests were done with a "normal" dosage of 0.8 % for **HEUCOFLASH™ LQ1** and 0.45 % for **LQ2**.

We have included different binder systems and different anticorrosive pigments like **HEUCOPHOS® ZCP PLUS, CAPP** or **CMP** to show the initial positive effect of protecting from flash rust while maintaining its positive long term effect in combination with the ACO pigments.

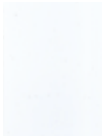
One DTM System using **HEUCOPHOS® CMP** and an APEO free styrene acrylic dispersion on sandblasted steel is chosen to demonstrate the short – and long term effect.



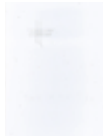
Flash rust after drying at RT / SBS



Control



HEUCOPHOS® CMP
&
HEUCOFASH™ LQ1



HEUCOPHOS® CMP
&
Competitor 1



HEUCOPHOS® CMP
&
HEUCOFASH™ LQ2



HEUCOPHOS® CMP
&
Competitor 2

Without flash rust inhibitor it shows the typical rust spots that are migrating to the surface while the resin is gelling and curing.

1224h SST / SBS



Control



HEUCOPHOS® CMP
&
HEUCOFASH™ LQ1



HEUCOPHOS® CMP
&
Competitor 1



HEUCOPHOS® CMP
&
HEUCOFASH™ LQ2



HEUCOPHOS® CMP
&
Competitor 2

And humidity testing: 1392h HT / SBS



Control



HEUCOPHOS® CMP
&
HEUCOFASH™ LQ1



HEUCOPHOS® CMP
&
Competitor 1



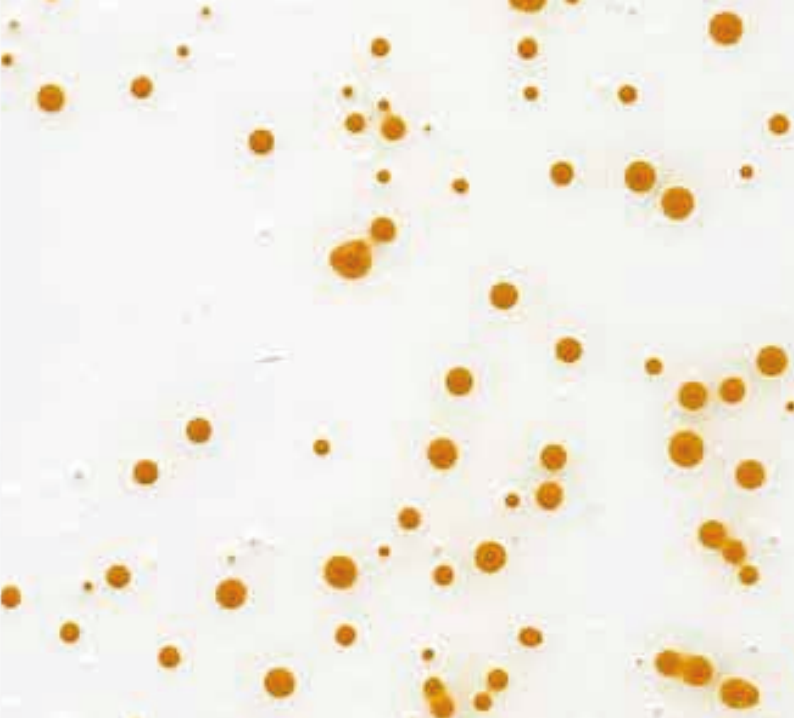
HEUCOPHOS® CMP
&
HEUCOFASH™ LQ2



HEUCOPHOS® CMP
&
Competitor 2

The results clearly show the early protection and even with severe exposure in the salt spray chamber for more than 1200h, the combination of **HEUCOFASH™** and **HEUCOPHOS®** protects the rough surface of sandblasted steel, without influencing any other coating properties.



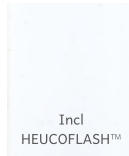
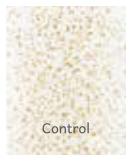


Product description

Waterborne coatings can cause corrosion to metallic surfaces in form of flash- or early rusting. This flash rust is caused by the water in the system and migrates through the coating during the gelling and drying time and forms rust spots visible on the surface and in some cases also on the metal surface itself. This has to be inhibited to provide long lasting coatings.

To protect the surface from rusting, organic and inorganic compounds are used as flash rust inhibitors that provide an early protection by preventing

the formation of rust spots during the gelling and curing time. This will not replace any anti-corrosive pigments that are necessary for long term protection. The newly introduced **HEUCOFLASH™** products are an addition to the anti-corrosive pigment portfolio of **HEUBACH** Group.



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