



Sustainable Ready Made paste for Discharge Printing

*Sustainable, Acrylate free, Water based Ready made print paste for
White & Clear Discharge printing*



What's the problem with old chemistries?

Right now, Many Ready Made print pastes offered are based on Solvents, release formaldehyde & are highly dependent on petrochemical based additives.

They pose the following:



ENVIRONMENTAL ISSUE



PERFORMANCE ISSUE

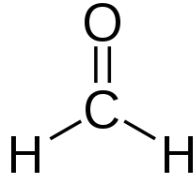
➤ Impact of old chemistries on the environment:

ENVIRONMENTAL ISSUE



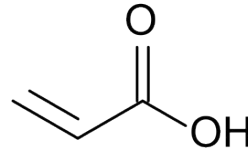
Hydrocarbon Solvent

High Aquatic Toxicity, Odour, Flammable



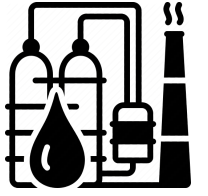
Formaldehyde

Carcinogenic, Enter Animal Food chain



Acrylates

Ubiquitous, Persistent, High aquatic toxicity



Petrochemical additives

Global warming contributor

Contrary to popular belief, Unsustainable are also poor performers during the printing stage

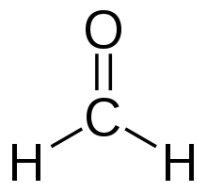
➤ Impact of old chemistries on the performance:

PERFORMANCE ISSUE



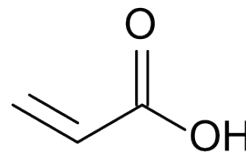
Hydrocarbon Solvent

Poor Discharging ability, Yellowing



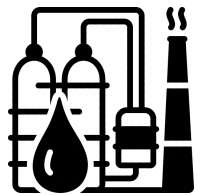
Formaldehyde

Carcinogenic to humans



Acrylates

Poor Rheology, Poor Colour build up, Difficult to print on rotary printing machines



Petrochemical additives

Discharge inhibitors

➤ Impact of old chemistries on Banned Heavy Metals:

*These "obsolete" chemistries during the discharge printing process also release banned heavy metal such as **Nickle (Ni) & Tin (Sn)***



➤ What's New?

SCHUTZEN Chemical group offers Sustainable water based Ready Made print paste for discharge style of printing on pre-reactive dyed cellulose substrate. Our products do not contain hazardous ingredients such as formaldehyde, Kerosene, Hydrocarbon solvents & petrochemical based rheology modifiers.



➤ Environmental Risks are mitigated using SCHUTZENPRINT Discharge products

OLD GENERATION	ENVIRONMENTAL IMPACT	NEW GENERATION Ready Made Pastes	ENVIRONMENTAL IMPACT
Hydrocarbon Solvent	High Aquatic Toxicity, Odour, Flammable	Water Based Chemistry	High biodegradability, Low to No aquatic toxicity, Odour free , Non Flammable
Formaldehyde	Carcinogenic, Enter Animal Food chain	Non Acrylate, Plant based rheology	Safe for animals & aquatic life
Acrylate based rheology	Ubiquitous, Persistent, High aquatic toxicity	Zero Formaldehyde	No environment impact, High biodegradability
Petrochemical additives	Global warming contributor	Low dependence on Petrochemical additives	Reduced environmental impact, indirect mitigation

➤ Performance Risks are mitigated using SCHUTZENPRINT Discharge products

SCHUTZEN products are based on environmental friendly products, They also outperform competing old chemistries

OLD GENERATION	PERFORMANCE IMPACT	NEW GENERATION Ready Made Pastes	PERFORMANCE IMPACT
Hydrocarbon Solvent	Poor Discharging ability, Yellowing	Water Based Chemistry	Better wetting, more uniform discharge ability, Non yellowing
Formaldehyde	Carcinogenic, Does not comply	Zero Formaldehyde	Safe & Compliant as per standards
Acrylate based rheology	Poor rheology, short flow, Difficult to print on rotary printing machines	Non Acrylate, Plant based rheology	Pseudoplastic flow rheology, long flow, Excellent print ability on rotary printing machines
Petrochemical additives	Discharge inhibitor	Right additives	Discharge enhancers



SCHUTZEN Chemical group offers Zero formaldehyde ready made print pastes

Ready Made Print Paste for Regular Water based Ready made print paste:

1.

**SCHUTZENPRINT-WHITE
WDC**

2.

**SCHUTZENPRINT-COL
WDC**

3.

**SCHUTZENPRINT-
UBER WHITE DC**

ACTIVATOR:

❖ **SCHUTZENSTRIP-ZFS*: Formaldehyde based discharging agent**

*The formaldehyde released by SCHUTZENSTRIP-ZFS which is well below the acceptable range of 200 parts per million



SCHUTZEN Chemical group offers Zero Formaldehyde Ready made print paste:

Ready Made Print Paste for White & Colour Discharge:

1.

SCHUTZENPRINT-FF WHITE DC

2.

SCHUTZENPRINT-FF COL DC

ACTIVATOR:

- ❖ SCHUTZENCOL- LQC
- ❖ SCHUTZENSTRIP-TU*: *Formaldehyde FREE discharging agent*

*SCHUTZENSTRIP-TU Release "ZERO" Formaldehyde.

➤ Advantages

- ✓ Zero formaldehyde ,
Hydrocarbon-free
Water-based
- ✓ Excellent Whiteness (for white
discharge prints)
- ✓ Bright color (for color discharge
prints)
- ✓ Excellent washability
- ✓ Soft-hand feel
- ✓ Better solidity of prints
- ✓ No tinting of shades
- ✓ Higher sharpness
- ✓ Enhanced shade brilliance
- ✓ Baby-friendly
- ✓ No Nickel & tin problem
- ✓ Printable on rotary printing
machine





Sustainable Solutions Ultimate Formulations



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