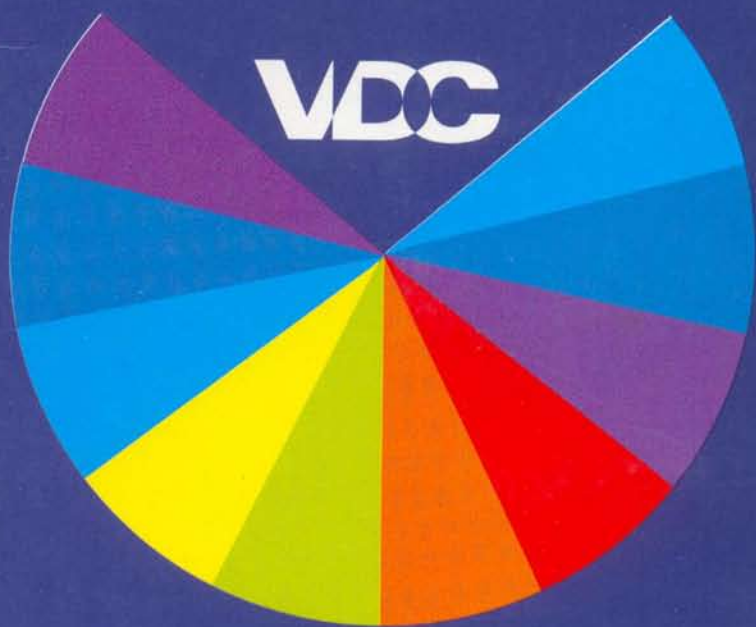







**VIPULPRINT
PIGMENT EMULSIONS**



VIPUL DYE CHEM LTD.

VIPULPRINT

| | |
|--|------------------------------|
|  | 4% Yellow F5G E/C. |
|  | 2% Yellow F2G E/C. |
|  | 2% Yellow GRKW E/C. |
|  | 2% Golden Yellow FRM E/C. |
|  | 2% Golden Yellow F3R E/C. |
|  | 3% Orange F5G E/C. |
|  | 3% Orange FGRN E/C. |
|  | 4% Pink 3BX E/C. |
|  | 4% Pink IR E/C. |

VIPULPRINT



4%
Red FGR E/C.



4%
Red FRC E/C.



4%
Rubine BX E/C.



4%
Bordeaux FRN E/C.



2%
Red Violet FR E/C.



4%
Violet FB E/C.



4%
Navy Blue FB E/C.



4%
Blue FFR E/C.



4%
Blue FFG E/C.

VIPULPRINT



4%
Turq. Blue FBN E/C.



4%
Olive Green FGR E/C.



4%
Green FB E/C.



4%
Green F2G E/C.



2%
Brown GR E/C.



4%
Brown FGR E/C.



3%
Brown R E/C.



3%
Grey FB E/C.



7%
Black FPV E/C.
(Reduction 1:15)

| VIPULPRINT | Light | Washing at | | Chlorine | Perspiration | Trichloro-ethylene |
|------------------------|-------------------|------------|-------|-----------------|--------------|--------------------|
| | | 40°C | 100°C | | | |
| Yellow F5G E/C. | 6-7 7 7-8 | 5 | 4-5 | 5 | 5 | 1 |
| Yellow F2G E/C. | 2-3 5 5-6 | 5 | 4-5 | 4-5 | 4-5 | 2-3 |
| Yellow GRKW E/C. | 6-7 7 7-8 | 5 | 5 | 5 | 5 | 4-5 |
| Golden Yellow FRM E/C. | 2-3 5 5-6 | 5 | 4-5 | 4-5 | 4-5 | 2-3 |
| Golden Yellow F3R E/C. | 2-3 5 5-6 | 5 | 4-5 | 4-5 | 4-5 | 2-3 |
| Orange F5G E/C. | 4-5 6 6-7 | 5 | 4-5 | 4-5 | 4-5 | 2-3 |
| Orange FGRN E/C. | 5-6 7 7 | 5 | 5 | 5 | 5 | 3-4 |
| Pink 3BX E/C. | 6-7 7 7-8 | 5 | 4-5 | 5 | 5 | 1-2 |
| Pink IR E/C. | 6-7 7 7-8 | 5 | 4-5 | 5 | 5 | 1-2 |
| Red FGR E/C. | 3 3-4 5 | 5 | 4-5 | 5 | 5 | 3 |
| Red FRC E/C. | 6 6-7 7 | 5 | 5 | 5 | 5 | 4-5 |
| Rubine BX E/C. | 4-5 5-6 6 | 5 | 5 | 5 | 5 | 3-4 |
| Bordeaux FRN E/C. | 6 6-7 7-8 | 5 | 4-5 | 5 | 5 | 1 |
| Red Violet FR E/C. | 6-7 7 7 | 5 | 4-5 | 5 | 5 | 2 |
| Violet FB E/C. | 6-7 7 7-8 | 5 | 5 | 5 | 5 | 4-5 |
| Navy Blue FB E/C. | 6-7 7 7-8 | 5 | 5 | 5 | 5 | 4-5 |
| Blue FFR E/C. | 6-7 7 7-8 | 5 | 5 | 5 | 5 | 4-5 |
| Blue FFG E/C. | 6-7 7 7-8 | 5 | 5 | 5 | 5 | 4-5 |
| Turq. Blue FBN E/C. | 6-7 7 7-8 | 5 | 5 | 5 | 5 | 4-5 |
| Olive Green FGR E/C. | 5-6 6-7 7 | 5 | 5 | Change in Shade | 5 | 4-5 |
| Green FB E/C. | 7-8 7-8 7-8 | 5 | 4-5 | 4-5 | 5 | 4-5 |
| Green F2G E/C. | 7 7-8 7-8 | 5 | 4-5 | 4-5 | 5 | 2-3 |
| Brown GR E/C. | 3 3-4 5 | 5 | 4-5 | 5 | 5 | 2-3 |
| Brown FGR E/C. | 6 6-7 7 | 5 | 4-5 | 5 | 5 | 4 |
| Brown R E/C. | 6-7 7 7 | 5 | 5 | 5 | 5 | 4-5 |
| Grey FB E/C. | 5-6 6-7 7 | 5 | 5 | Change in Shade | 5 | 4-5 |
| Black FPV E/C. | 7-8 | 5 | 4-5 | 5 | 5 | 5 |

VIPULPRINT PIGMENT EMULSIONS IN PRINTING

General

Vipulprint Pigment emulsions are popular because of strict quality control, high degree of fastness properties achieved by the binders.

Vipulprint Pigment emulsions are based on oil-in-water emulsion principle and the printing paste consists of the following ingredients :

- a) Pigment emulsion
- b) Binder
- c) Acid liberating agent
- d) Kerosene or Kerosene substitutes

a) Pigment Emulsion

Vipulprint Pigment emulsions are the selected pigments in emulsion form distinguished by exceptional fineness of dispersion and excellent stability. They are miscible with one another in any proportion so that any desired shade may be obtained. They are compatible with all the binders.

b) Binders

Binder SLN

This is a versatile binder with an outstanding resistance to mechanical stress and chemicals. This binder is suitable for roller and screen printing and due to its excellent re-emulsification property it is eminently suitable for rotary screen printing.

c) Acid Liberating Agent

Though various acid liberating agents such as Diammonium Phosphate, Ammonium Chloride, Ammonium Nitrate etc. are recommended for pigment printing, we suggest the use of Diammonium Phosphate as an acid liberating agent. with our Vipulprint SLN. However, for special purposes, other acid liberating agents may be used.

d) Kerosene or Kerosene Substitutes

With the help of the emulsifier from binder, kerosene added in the printing paste forms stable emulsion with water. This printing paste after drying and curing leaves minimum solids on the cloth resulting in very bright prints, higher colour yield and good fastness properties.

DIRECTION FOR PRINTING

Preparation of Stock Thickening :

| | |
|---------|---|
| 100 gms | Binder SLN are mixed with |
| 190 gms | Water |
| 20 gms | Emulsifier |
| 40 gms | 10% Tylose (Thickening Agent) |
| 650 gms | Kerosene Oil are poured in under high speed Stirrer till the emulsification is complete. |

| | |
|----------|-------|
| 1000 gms | Total |
|----------|-------|

Preparation of Printing :

| | |
|---------|------------------------------------|
| 50 gms | Vipulprint Pigment Emulsion |
| 50 gms | Urea |
| 20 gms | Diamonium Phosphate (1:2) Catalyst |
| 880 gms | Stock thickening |

| | |
|----------|-------|
| 1000 gms | Total |
|----------|-------|

Drying and curing :

Prints are dried at 80-90°C and then cured at 130-150°C for 6-8 minutes. It is not necessary to wash the prints after curing.

Catalyst :

Can be used such as Amonium Chloride, Amonium Nitrate, Amonium Thiocyanate.

Thickening Agent :

Soluble thickening agents like CMC of low Viscosity, Meypro Gums, Alginates (low Viscosity) pure Tragacanth may also be used in the above recipe.

(Without Guarantee)

VIPUL DYE CHEM LTD.

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