

To Whomsoever It May Concern

Marks & Spencer - RSL Compliance Certificate

Pidilite Industries Limited here with confirm, that the products mentioned in Annexure I,II (A,B,C) III (A,B) can be used for Garments & Textile products including Pigment Printing that meet the requirements set out in **M&S- Restricted Substances list (RSL) V2.1 dated May 2016**. All the products are in compliance with REACH (Regulation (EC) NO 1907 / 2006, Article 7.1, Annexure- XVI-2, candidate list-3.

Please note that the Annexure II (A,B,C) III (A,B) and notes on page 12 & 13, indicates which of the products have restricted suitability. (e.g. products for adults, products for children).

The above mentioned confirmation is given in line with the above, provided that chemicals are applied in accordance with Pidilite's recommendations and / or industry standards for chemical applications throughout the Textile industry. Processors particular attention is drawn to the below mentioned note & notes in the Annexures. For further details or information kindly contact Pidilite's Sales team.

We request that notes given under various Annexure and as notes should be property read & followed.

For any Unlisted Pidilite Products or for any clarification, kindly contact Pidilite's Sales Team / TSL

R.H.Parekh
(Vice President Technical)

Note: (1) The Information submitted in this confirmation is based on our current knowledge and experience. The technical advice whether verbal, in writing or by way of trials is given in good faith but without warranty. In view of the many factors that may affect processing and applications, our advice does not relieve processors from the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or suitability for a specific purpose nor of the legal status of the listed products names. It is the responsibility of those to whom we supply, our products to ensure suitability for the intended process, uses and any proprietary, rights and existing laws and legislation are observed.

Responsibility for ensuring that the goods processed with the chemicals and colours meet the requirements of the 'labels/agencies' rests solely with the processors.

This confirmation does not constitute an offer for sale of Pidilite's products nor does it mean that Pidilite products are available on any market, for any customer and at any specific time.

Pidilite Industries Limited

Marol Laboratory

Compartment No.43, Plot No. 9,
Marol Co-Operative Industrial Estate Ltd.,
Marol Sagbaug Road, Andheri (East), Mumbai
-400 059, India

Corporate office
Ramkrishna Mandir Road,
Andheri (E), Mumbai 400059,India

Regd. Office
Regent Chambers, 7th floor
Jamnalala Bajaj Marg
208 Nariman Point, Mumbai 400 021

T + 91 22 2835 7000
F + 91 22 2836 4565 / 2821 6007

T + 0091 22 28516910 / 28516911 / 28511663
F + 0091 22 28511874
CIN: L24100MH1969PLC014336

Products for M & S -RSL
Annexure - I (Products for Baby Wear and Others) Class of Products

Pidilite Industries Limited herewith confirm that the products mentioned in Annexures - I can be used for the processing of Garments and Textile products that meet the requirement set out in

Product that are Intended for Textile in all articles including Children's Articles. Below 3 years

Annexure I

Product Name	Product Name	Product Name
Texcron Yellow 5G S/C	Texcron Turquoise HB-TE	Pidicryl SHRP
Texcron Yellow -5GD S/C	Texcron Turquoise ITB	Pidimine ISG
Texcron Yellow GRKW S/C	Texcron Green GG S/c	Pidimine SOFT PG
Texcron Yellow SGP	Texcron Green G S/c	Pidimine SL 1100
Texcron Yellow I2G	Texcron Green HB-200-TE	Pidicron Gold Binder BYN
Texcron Yellow HB 200 TE	Texcron Green GB	Pidicron Gold Binder SGB
Texcron Yellow HB 200	Texcron Green IFBL	Pidicryl Foil Binder 200
Texcron Yellow PHR	Texcron Brown R S/C	Pidicryl Binder MMG
Texcron Yellow NTG-TE	Texcron Brown GR S/C	Pidicryl Binder MMG SPL
Texcron Golden Yellow PE-RR	Texcron Brown RG	Pidinon APF
Texcron Golden Yellow HB TE	Texcron Brown RG TE	Pidinon PT
Texcron Orange PE-RG	Texcron Brown IBG	Pidicron ANI
Texcron Orange HB GT TE	Texcron Grey BB	Ranipal 2B
Texcron Bordeaux HB TE	Texcron Black TKR S/C	Ranipal 2BA
Texcron Red Violet RK S/C	Texcron Black NGB	Pidifinish OXL
Texcron Rubine PE-BC	Texcron Black HPNG	Pidifinish FX-CIL
Texcron Brill Red HB 410-TE	Texcron Black FB TE	Pidivyl TGPF
Texcron Brilliant Red HB-641-TE	Texcron Black ING	Pidicryl Ultra 1607
Texcron Brill Red RPS S/c	Texcron Digital Yellow HP	Pidivyl BD (P)
Texcron Brill Red HB-200 S/C	Texcron Digital Magenta HP	Pidivyl GHS (P)
Texcron Brill Red HB-TE	Texcron Digital Cyan HP	Pidivyl HDP (P)
Texcron Brill Red BLD S/C	Texcron Digital Black HP	Pidivyl GPB Extra
Texcron Brill Red PE-GB S/c	Pidicryl RTP Binder HP	Pidivyl PB 6500
Texcron Red IGR *	Pidisol Base White	Pidivyl STWR
Texcron Brilliant Red GBK S/C	Pidisol Clear ZPC 250	Pidicron RMG-SPL
Texcron Brill Red PE-GBN S/C	Pidisol Ink Reducer	Pidicron WASH OFF ASN
Texcron Brill Pink CP S/c	Pidicron Stretch Clear 350	Pidisol Yellow OPA
Texcron Brilliant Pink ERP	Pidicron White CPR 100	Pidisol Orange OPA

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Texcron Brilliant Pink P3B	Pidicron White CPR 200	Pidisol Red OPA
Texcron Violet MB S/c *	Pidicron White KLC	Pidisol Blue OPA
Texcron Violet RDG *	Pidicron White RT ECO	Pidisol Green OPA
Texcron Violet B S/C *	Pidicron White MPS II CRT	Pidisol Violet OPA
Texcron Violet HB-500-TE *	Pidicron White PTF A CRT	Pidisol Black OPA
Texcron Violet MBHB *	Pidicron White LMPS	Texcron Fluorescent EF Yellow 511
Texcron Violet ST-125 *	Pidicron White MPTE	Texcron Fluorescent EF Blue 516
Texcron Violet IFB *	Pidicron Magic MCMP	Texcron Fluorescent EF Pink 513
Texcron Blue ST 125	Pidicron Stretch Clear –CRT	Texcron Fluorescent EF Orange 512
Texcron Blue BN S/C	Pidicron Stretch White – CRT	Texcron Fluorescent EF Magenta 514
Texcron Blue B S/C	Perase Discharge Paste CCRT	Texcron Fluorescent EF Green 515
Texcron Blue HB-200-TE	Perase Discharge Paste WCRT	Texcron Fluorescent EF Red 510
Texcron Blue HB-500-TE	Pidicryl Binder CIL-100	Texcron Fluorescent EF Violet 523
Texcron Blue IFRL	Pidicryl Binder CIL 344 SPL	Pidithane Binder 5000
Texcron Brilliant Blue RRN	Pidiprint 160	Pidithane Binder 4444
Texcron Navy Blue BRJ S/c	Pidiprint 160 SP	Pidicryl Binder FTR
Texcron Navy Blue CNB S/c	Pidiprint E 200	Pidicryl Binder UNB
Texcron Navy Blue IRR	Pidiprint 910 R	Pidicryl Binder DAC-001
Texcron Turquoise. Blue BCD S/c	Pidiprint 999 RDT	
Texcron Turquoise BC S/c	Pidiprint 1000 RDT	

Note:

- * Product has traces of residual Chlorinated Solvents as Impurities in pigments used , we recommend for dark shade (high percentage of colour used), to check in laboratory or small strip before using at plant level, as it depends on number of parameters.
- Confirmation for Baby wear (below 3 years) as per Japanese method JIS-L 1041-2011 method-A, A-A0< 0.05 and EN-ISO-14184-1 given on basis of % of products (From Annexure-I) can be present in Textile finish products (As per Industries norms, e.g. max Binder -30%, Colour 20%, Thickener 5% , Fixer – 5%, Softener 3% etc.) Requesting customer, if using different % of products, to confirm in laboratory or small strip before big production. As 'present 'formaldehyde depends on number of parameters.

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Annexure – II

Conditional products for Baby Wear (below 3 years)

Can be used for all other class without condition

Annexure –A

Product Name	Product Name	Product Name	Product Name
Pidicryl Binder 5401	Pidicryl Binder TE-ECO	Pidicryl Binder BN	Pidicryl Binder LT-110
Pidicryl Binder 5555	Pidicryl Binder 6080	Pidicryl Binder N060	Pidicryl Binder ABPD
Pidicryl Binder SUN	Pidicryl Binder TESH	Pidicryl Binder HS-ECO	Pidifinish FX-500 *

Note:

- A. Product mentioned above contains substance which can release free formaldehyde during process between >16 ppm to < 65 ppm. To control free formaldehyde as per given below limit for Baby Wear (below 3 years), recommended recipe and condition need to follow.
 - a. Textile Articles with formaldehyde value of < 16 ppm (standard EN-ISO-14184-1) for Baby wear (below 3 years).
 - b. Textile Articles with formaldehyde value of A-A0 <0.05 (Approx. 12.5 ppm) as per (JISL-1041-2011 method A) for baby wear (below 3 years).
- B. Condition / Recommendation:

We recommended using following formula to control free formaldehyde (however you must try in laboratory or small plant trial before using fully at plant level, as free formaldehyde level based on number of parameters.

1. Addition of Urea (3 to 5%) in stock paste is recommended as it helps keeping the free formaldehyde within limits. Urea act as "formaldehyde Scavenger".
2. Optimum curing of the prints is essential for the achievement of low formaldehyde value. We recommend curing at 150 °C for 5 minutes or 180 °C for 2 minutes.
3. The amount of print paste deposit in application influence the free formaldehyde content more superficial and low print paste application result in lower formaldehyde value. We recommend using screen mesh of 120 size and viscosity of print paste in the range of 120 to 145 poise.
4. We recommend trying following recipe (based on using Pidilite's Products only) to get free formaldehyde using above products for baby wear below 3 years.
5. Formulation for Stock Paste

869-627 gms.	Water
016-160 gms.	Pidiprint 160
080-150 gms.	Texcron Binder (From 3 A)
001-008 gms.	Pidimine SL-110 / Pidimine ISG (As per requirement)
004-005 gms.	Pidifinish OXL / Pidifinish FX-500 (As per requirement)
030-050 gms.	Urea

Note: *Pidifinish FX-500 contains substances, which can release formaldehyde during process. Recommend not to use more than 3 % in stock paste.

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Annexure - B

Following products contains substances which release formaldehyde during end application process. Require to follow condition / recommendation to use for Baby wear (below 3 years), and advisable to take at laboratory / small scale level before taking at plant level.

Product Name	Product Name
Perase Activator SPL	Pidicron NRT
Pidicron DTS	

Note: They are Dyes discharging agent for discharge printing. Require proper curing and washing to remove released formaldehyde. If not done properly can give free formaldehyde. Washing is must to get formaldehyde below limit. Depends on Dyed fabric, if can give free formaldehyde.

Annexure – C

Products contains substances which can release formaldehyde during process , however can be use for free formaldehyde more than > 16 ppm to < 75 ppm limit means Class II & III (standard EN-ISO-14184-1 Method). For Baby wear below 3 years, using low% product can be tried in laboratory scale before bulk use.

Product Name	Product Name	Product Name	Product Name
Pidicryl Binder PDN	Pidicryl Binder 3300	Pidicryl Binder FJN	Pidifix EF
Pidicryl Binder PDN SPL	Pidicryl Binder TLN	Pidicryl Binder TX8100	Pidifix LF
Pidicryl Binder 5500	Pidicryl Binder BGD	Pidicryl Binder TX 44	

Note: Pidifix EF and Pidifix LF are low formaldehyde containing products. Recommend not to use more 3% in formulation with Urea to control free formaldehyde.

Annexure – III

Product list for restricted mixing

Product contain C.I. Pigment Black -7 (Annexure III A) cannot be mixed with products containing C.I. pigment Orange 13 & pigment Orange -34 (product listed in Annexure IIIB) as accelerate release of Banned Amines (as per **M&S** RSL) however, can be mixed with product listed in Annexure I as such, without any condition.

Annexure – III A

Product Name	Product Name	Product Name	Product Name
Texcron Black TKR	Texcron Black FB TE	Texcron Brown GR S/C	Texcron Brown RDG
Texcron Black NGB	Texcron Black ING	Texcron Brown RG TE	Texcron Grey BB
Texcron Black HPNG	Texcron Brown R S/C	Texcron Brown IBG	

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Annexure – III B

Product Containing C.I. Pigment Orange 13 & pigment Orange -34 (as per Annexure III B) cannot be mixed with product containing Carbon Black – 6 & Carbon Black – 7 (as per product listed in Annexure III A as excelled the release of Banned Amines as per **M&S** (RSL), however can be mixed with product listed in Annexure I or can be used as such.

Product Name	Product Name	Product Name
Texcron Golden Yellow KRM S/C	Texcron Golden Yellow IRM	Texcron Golden Yellow HB-220-TE
Texcron Golden Yellow KGP	Texcron Orange PFG	

Note: Annexure – 1,2 & 3

1. CAS no. / EC. No. is not applicable to our products as they are polymers (formulated synthetic resin) or pigment preparation or formulated auxiliaries, which has no specific CAS no. available.
2. None of the product contains intentionally added formaldehyde in formulation of the product. Some products has substances present which can release formaldehyde during end application process. PPM present of formaldehyde depends on number of parameters like % of products used, process condition and requirement (specification) of the finish product. (We have given Annexure of the products for Baby wear which can be used as per note given and certain products with condition / recommendation for baby wear. However all the products can use for other than baby wear for all class like Class II, III, IV.
- 2A. Pidifix EF and Pidifix LF are low formaldehyde based products not recommended to use more than 3% with Urea for other than Baby wear.
Note: Free formaldehyde limit given by **M&S** are for final textile articles and not in chemicals directly.
3. None of the products contains intentionally added "Chlorinated Aromatic Hydrocarbon "(COC) like Chloro benzene and Chloro Toluene. Some products may have traces of residuals chlorinated solvents as impurities in raw materials, pigments used (marked on product as*). We recommend, especially for Dark shade (high % of colors), using * product must confirm at laboratory or small scale level as it depends on number of parameters. (if applicable)
4. None of the product contains intentionally added any Banned Amines. If any product has traces of Impurities (less than allowable limit) which carry forward from pigments used as RM's. However, in final Textile Articles, AZO (Banned Amines) will be in allowable limit. Please note, as per M&S- Restricted Substances list (RSL) V2.1 dated May 2016 Allowable limit is 20 ppm on Textile Articles. No limit given for pigment preparation as such.
5. You cannot mix products based on pigment orange 13 and pigment orange 34 with products based on Carbon Black (Pigment Black 6 & 7). Remark given in Annexure. However individual or mixing with other products is OK.
6. Products (colors) do contain in-can preservative but not intended to have Biotical effect on fabric.
7. Some products contain chemically combined copper. This metal is present in complex bound for mass substantial constitute of the colorant (metal complex pigment like Blue-15, Blue 15:3, Green-7 based products). Processed textile can meet **M&S** extractable free copper requirement as per M&S- Restricted Substances list (RSL) V2.1 dated May 2016. The Product given in Annexure's are compliance the requirements of REACH (SVHC).
8. The test method for free Formaldehyde, ISO-14184-1 and JIS-L 1041, method –A, are not good for any liquid testing. No standard method yet available, hence if you try to test any product directly for free Formaldehyde by above method, the report will not be reliable. Advice to check only of final Textile Articles. (Different method will give different result).

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