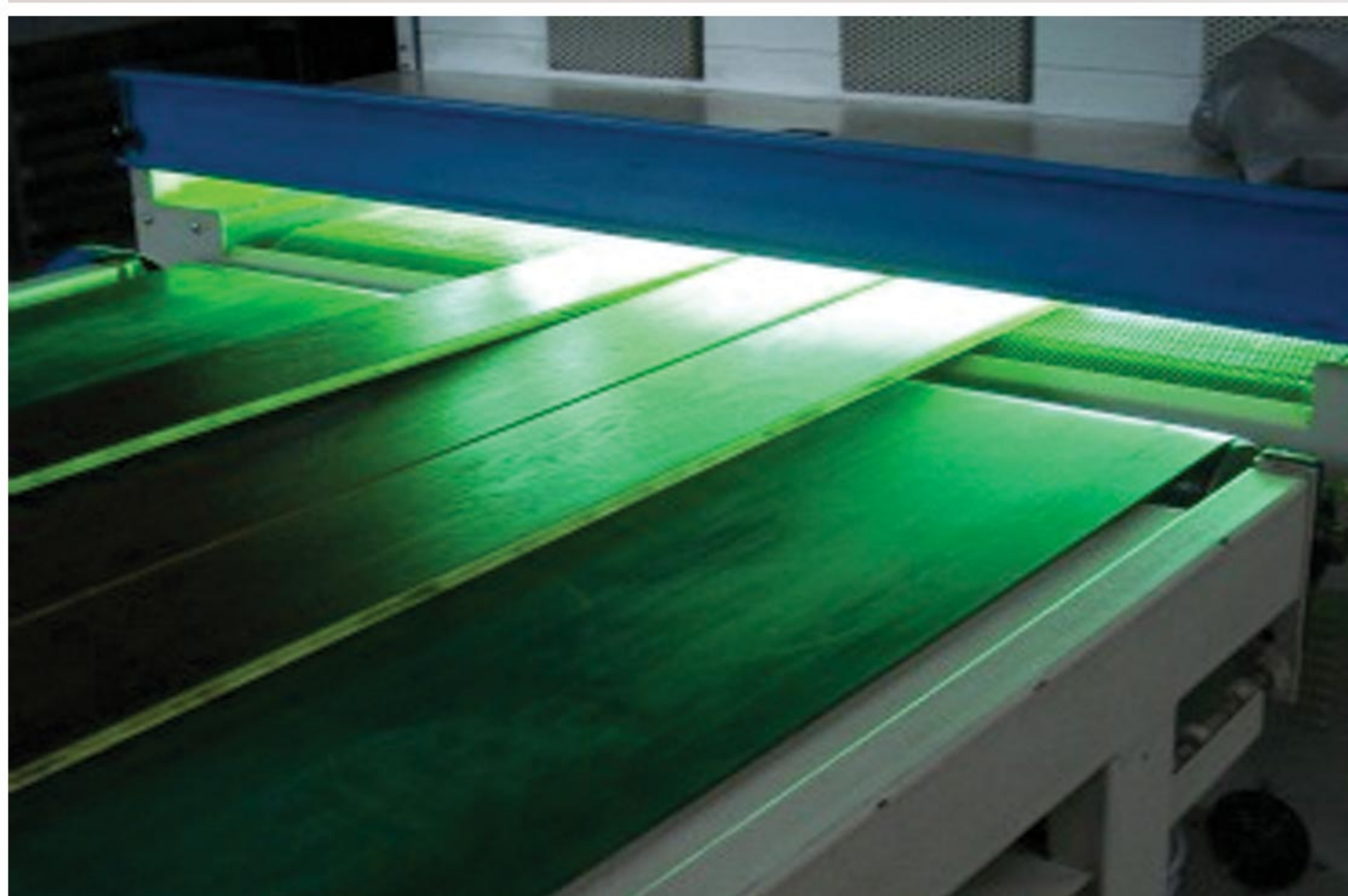




Other Ritver Divisions

INDUSTRIAL FINISHES

Ritver's Industrial coating range retains its hard earned reputation as a major supplier of Industrial coating finishes to the petrochemical and downstream industries in the GCC, Asia & Africa. Recently, Ritver decided to expand its range of products by introducing the first Industrial Coating line of products in the coveted areas including Epoxies, Polyurethanes, and Solvent free, recognized as having the highest possible degree in the protection of steel, concrete and other critical elements of infrastructure.

POWDER COATING

In Mid 2011, Ritver decided to launch A NEW PRODUCTION LINE through its plant erected in Lebanon, The Powder Coating venture is a standing evidence to support the extreme faith in surging forward through sustained development and environment.

DECORATIVE FINISHES

Ahead of its rivals, Ritver is now completing the establishment and extension of the wide decorative range of products, followed by a professional and experienced distributors network which includes more than 50 showrooms operating in many cities and remote areas in the GCC, Europe & Africa.

CONSTRUCTION CHEMICALS

Ritver is proud to present the new addition to its range of products by launching the family for the new range of construction chemicals materials. Ritver became in a very short time one of the leading construction chemicals companies in the GCC.

UAE | OMAN | QATAR | KSA | IRAQ | LEBANON | NIGERIA | ITALY | CANADA



RITVER
PAINTS & COATINGS
where paints come to life

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Manufactured by Emver Paints (a manufacturing unit of Ritver) which complies with ISO 17025:2005 and is accredited by Intertek.



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UV PAINTS

DIAL 800 PAINTS (Toll Free Hotline in UAE)

UV curable coatings for wood earned a considerable share of wood coatings business due to its high quality, instant curing and extremely high solid contents. Ritver embraces a complete range of UV coatings for all type of applications.

A. Why moving to this innovation?

- 1. Instant cure without volatile emissions
- 2. Excellent chemical & mechanical resistance
- 3. 90% to 100% solids by volume which reduces the coating consumption
- 4. Full color spectrum with complete hiding power
- 5. Hazardous Air Pollutant Free
- 6. High production speed due to instant cure properties

Beside these advantages, UV curable coatings has good adhesion, good sandibility and scratch resistant, High gloss, homogeneous matt in clear and pigmented coatings as well as High UV- reactivity for all applications.

B.Common Applications:

Different types of materials are attributed to the following applications

- 1. Curtain Coater
- 2. Spray Machine
- 3. Roller &Reverse machine

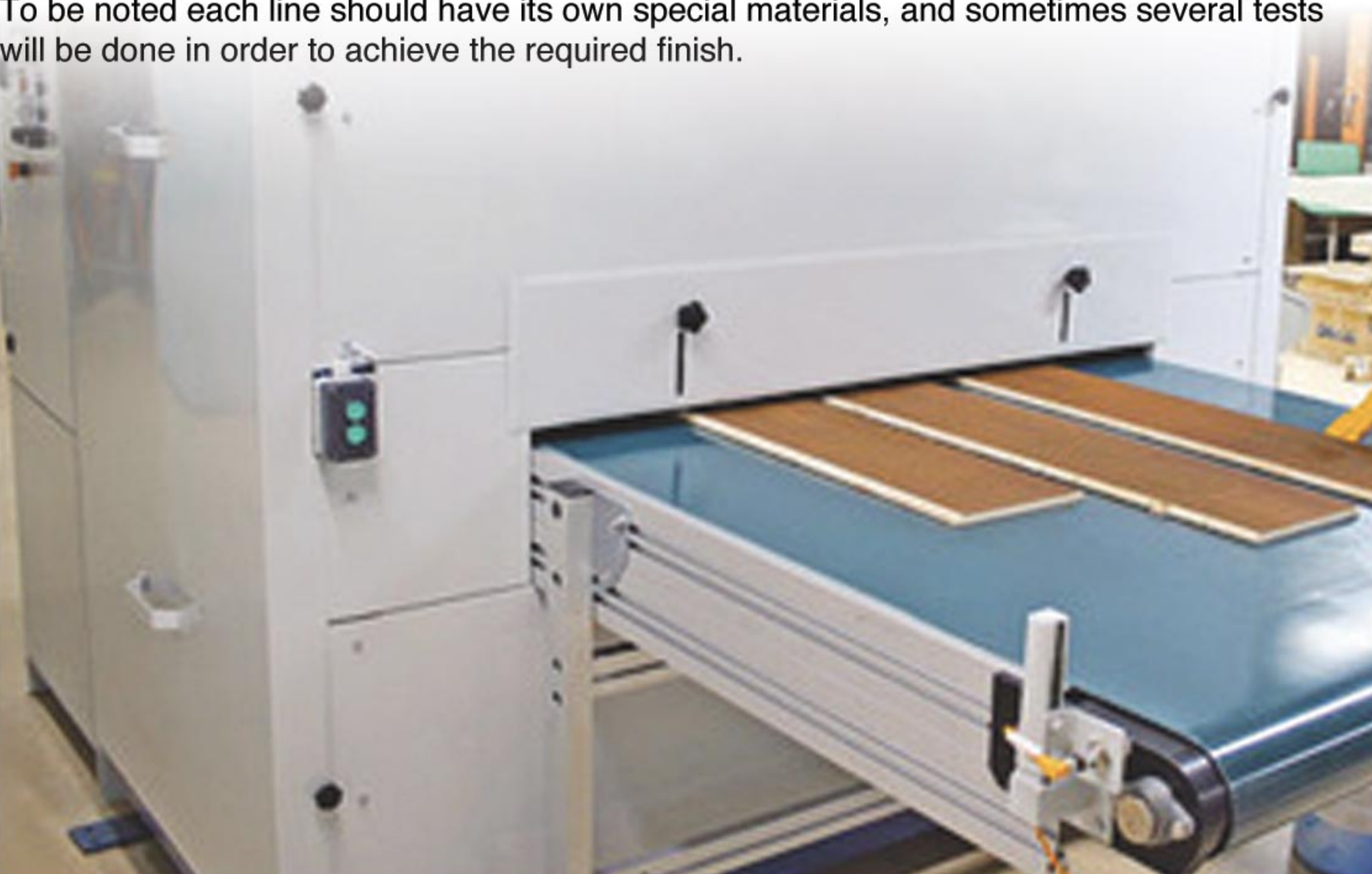
C.Shifting process to UV coatings:

Ritver technical team will check the line at site, accordingly will issue the special materials for that particular line and fix a demonstration date.

List of compulsory data needed to determine the type of coating

- 1. UV Line Brand name
- 2. Line Type (Roller, Curtain, Spray)
- 3. Line Speed
- 4. Spreading rate of Base Coat, Top Coat
- 5. UV Lamps Type, Number, Power
- 6. Flash Off Time
- 7. Procedure of work
- 8. Number of coat in use

To be noted each line should have its own special materials, and sometimes several tests will be done in order to achieve the required finish.



D. UV Product Group:

4 kinds of UV products are available with different characteristics and specifications, below are the different types we have:

UV Polyester:

It is formulated by unsaturated polyester resin dissolved in styrene. It has a good price, good quality in terms of adhesion, sandibility, glossiness and clarity. UV polyester has an average reactivity therefore it has slow drying time compared to other type of UV paint.

UV Polyacrylic:

It is formulated by unsaturated polyester blinded with pure acrylic resin and dissolved in TPGDA and TMPTA. It has a good quality in terms of adhesion, sandibility, glossiness, clarity and it has better performance than the polyester. It offers higher reactivity than polyester, therefore drying time is much higher.

UV Acrylic:

It is formulated by epoxy acrylate resin and dissolved by TMPTA and TPGDA, it is the higher grade between all of the UV products, since it has the highest reactivity and the highest curing speed. It provides a good quality in terms of adhesion, elasticity, sandibility, glossiness, clarity and it is applicable with 100% solid content.

UV Dual Cure Acrylic:

It is formulated by a combination of UV acrylic curable base with a conventional cross-link curing. It comes with photoinitiator and hardener, therefore the pot life is extended as result of adding isocyanate hardener. It derives good quality in terms of adhesion, finish, and very good manual sandibility for non flush surfaces.

E. List of our UV products:

Product Name	Code	Used by
Ritver UV PA Stucco	PUV2331	Roller
Ritver UV Polyacrylic Sealer	PUV2340	Reverse
Ritver UV Polyacrylic Primer White	PUV2340W	Reverse
Ritver UV Acrylic Sealer	AUV2346	Spray
Ritver UV Polyacrylic Sealer	PUV2357	Roller
Ritver UV Polyacrylic Primer White	PUV2357W	Roller
Ritver UV Polyacrylic White Primer	PUV2356	Spray
Ritver UV Acrylic Clear Matt	AUV237X	Roller
Ritver UV Acrylic White Matt	AUV237XW	Roller
Ritver UV Polyester Clear Matt	PUV248X	Spray
Ritver UV Polyester White Matt	PUV248XW	Spray
Ritver UV Polyester Clear Matt	PUV249X	Curtain
Ritver UV Polyester White Matt	PUV249XW	Curtain
Ritver UV Polyacrylic Clear Matt	PUV236X	Spray
Ritver UV Polyacrylic White Matt	PUV236XW	Spray
Ritver UV PA Clear Full Glossy	PUV2389	Spray
Ritver UV PA White Full Glossy	PUV2389W	Spray
Ritver DC UV Clear Matt	DUV232X	Spray
Ritver DC UV White Matt	DUV238X	Spray
Ritver DC UV Sealer	DUV2332	Spray
Ritver DC UV Primer White	DUV2333	Spray