

TECHNOLOGY BROCHURE · 2026

09 PAINT RECYCLING PLANT

WASTE PAINT · RECOVERY · RE-MANUFACTURE

Facilities that take scrapped paints, primers, putty and thinners and turn them back into saleable paint products, with solvent recovery and an ETP included.

- Waste paint segregation & testing
- Dispersion & milling
- Tinting, straining & packing
- Solvent recovery
- Effluent treatment
- Container cleaning & baling

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PAINT RECYCLING

LEFTOVER PAINT IS A RAW MATERIAL

Large volumes of paint are never applied: surplus from projects, returned or expired stock, off-colour batches and part-used containers. Much of it is still chemically sound. A recycling plant sorts this material by type, checks what can be recovered, and reworks it into usable coatings, while solvents that cannot be reused in paint are reclaimed by distillation.

The plant therefore looks like a compact paint factory with extra front-end and back-end steps: sorting and testing at the start, solvent recovery, container cleaning and effluent treatment at the end.

THE FIRST RULE: SEGREGATE

Paint chemistries do not mix freely. Water-based and solvent-based materials, and reactive two-pack systems, follow separate routes from the moment they arrive.

- Water-based emulsions and primers
- Solvent-based enamels and primers
- Two-pack and reactive coatings
- Thinners and wash solvents
- Putty and paste products



FIG. 9.1 DISPERSION AND LET-DOWN VESSELS IN A PAINT PROCESSING HALL (ILLUSTRATIVE)

TABLE 9.1 HOW EACH STREAM IS TYPICALLY HANDLED

INCOMING STREAM	GENERAL TREATMENT	TYPICAL OUTPUT
Water-based paints	Screening, blending of compatible lots, colour and viscosity correction	Recycled emulsions, primers
Solvent-based paints	Filtration, blending, toning and adjustment with fresh materials	Enamels, primers
Used solvents & thinners	Distillation to separate clean solvent from paint residue	Recovered thinner
Unusable residues	Dewatering or drying to reduce volume	Waste for authorised disposal or co-processing
Empty containers	Draining, washing, crushing or baling	Metal and plastic for recycling

THE PROCESS

SORT, TEST, REWORK, RECOVER

01 **Receiving**
Weighing, labelling, safe storage by type

02 **Sorting & testing**
Lab checks decide each lot's route

03 **Decanting**
Containers emptied, material screened

04 **Reworking**
Blending, dispersion and adjustment

05 **Quality check**
Colour, viscosity, drying and finish

06 **Filling**
Packed for sale or reuse

PROCESS EQUIPMENT

- Drum decanting and screening stations
- Blending tanks with agitators
- High-speed dispersers for let-down
- Bag and cartridge filters
- Paste mixers for putty-type products
- Filling and lidding machines

RECOVERY & ENVIRONMENT

- Solvent distillation units
- Container washing systems
- Crushers and balers for empty packs
- Effluent treatment for wash water
- Fume extraction and vapour control
- Hazardous waste storage area

LAB & SAFETY

- Viscosity, density and colour measurement
- Drying time and film checks
- Flameproof equipment in solvent areas
- Earthing and bonding for transfers
- Fire detection and protection
- Personal protective equipment zones

WHY RECYCLE PAINT

- Less hazardous waste sent for disposal
- Lower demand for virgin resins, pigments and solvents
- Affordable coatings for budget-sensitive markets
- Recovered solvent reused in-house

WHAT WE DELIVER

- Process design and plant layout
- Equipment supply and fabrication
- Utilities, ETP and safety systems
- Erection, commissioning and training

Plant capacity, product range and layout are engineered to client requirement, the expected mix of incoming material and local regulations. Handling of waste paint requires the applicable state and pollution-control authorisations.

Most leftover paint is not waste. It is simply paint that has not found its use yet.

LET'S TALK ABOUT YOUR PLANT

FROM A FEED SAMPLE TO A RUNNING PLANT.

Share your feedstock, the products you want and the capacity you have in mind. Our process team will come back with a technical route, a block flow diagram and the next steps.

01 · Send

Feed details

Feedstock type, source, analysis if available, and the volume you expect per day.

02 · Define

Target products

The grades or cuts you need, the quality they must meet, and site constraints.

03 · Receive

Technical proposal

Process route, equipment scope and an execution plan for your review.

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