

MASTERSEAL™ 351P

Single component, moisture curing, PU wall coat for clean rooms

Description

MASTERSEAL 351P is a single part, polymer based, wall coating that cures by atmospheric moisture to form an easily cleanable, aesthetically pleasant finishing.

Uses

MASTERSEAL 351P is designed for coating on interior walls of rooms where maintaining hygienic and /or clean environment is critical. Application areas include:

- Hospitals - wards, operation theatres, intensive care units, autopsy rooms, morgues, etc.
- Clinics, examination rooms.
- Pharmaceutical manufacturing and storage facilities.
- Food processing, storage and packing facilities.
- Abattoirs and fish processing areas.
- Electronic component manufacturing and assembly areas.
- Wafer fabrication plants, PCB plants.

Advantages

- Single component
- Resistant to algae and fungus growth
- Chemical resistance
- Resistant to water
- Self priming
- Washable
- Available in white & pastel colours

Typical Properties

Mixed density	: 1.4± 0.1 kg/litre
Volume solids	: 32%
	(may vary with different shades)
Touch dry	: 20 Minutes at 30°C
Re-coat	: 4 Hours at 30°C
Full cure	: 7 Days
Finish	: Satin smooth
Adhesion (ASTM D4541)	: > 1.5 MPa (Concrete failure)

Specification Clause

The non-toxic, one part PU coating shall be MASTERSEAL 351P, a moisture curing, potable grade, protective coating for walls in interiors. The product shall be formulated to provide smooth, fungus resistant surface. The product shall be self-priming type, damp tolerant and shall free from volatile organic contents. The product shall be designed to be applied in two coats to achieve a dry film thickness of 80 microns.

Directions for use

Surface Preparation

Correct substrate preparation is critical for optimum performance. Surfaces should be clean, and free from loose particles, curing membrane or any other contaminant. Oil, grease, mould release agent, curing membrane, and such other contaminants must be removed by mild detergent and water, and by thoroughly scrubbing with a soft brush.

If the wall surface is damp or water is seeping out, it is necessary to stop the leakage before coating. For advice on the appropriate method for the site situation, contact BASF.

It is important to note that the final finish obtained is entirely dependent on the surface finish of the substrate.

For a superior finish, fill the substrate surface irregularities such as blowholes, honeycombs, and unevenness etc., using Polymer Putty to obtain a smooth and flat surface. The putty application must be carried out only after priming. If the irregularities are deep, contact BASF for advice on material and methods for smoothening out the same.

Mixing

Stir the contents of the container using a rod to homogenise the coating.

Application

Apply MASTERSEAL 351P by airless spray or a medium nap, lambs wool roller or brush depending on the area and the final finish desired.

Apply in two coats, each to a wet film thickness of at least 125 microns, with the second coat applied at right angles to the first and after about four hours interval to obtain a cured dry film thickness of approximately 80 microns.

Do not apply the first coat onto freshly placed concrete or mortar until its moisture content falls below 12%.

Curing

MASTERSEAL 351P is self-curing. Curing time depends up on the ambient temperature & humidity, the moisture content of the substrate, thickness of film, etc. High temperature and low humidity accelerate the curing process.



The Chemical Company

Coverage

On a smooth dense surface, each pack of 5kg will yields 3.5L and covers approximately 14m² to obtain DFT of 80 microns in two coats.

Actual coverage depends on the numbers of coats, surface profile, loss and wastage.

Packaging

MASTERSEAL 351P is available in 5kg pails.

Storage and Shelf life

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.

Shelf life is 12 months when stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice please consult BASF's Technical Services Department.

Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet. MSDS available on demand or on BASF construction chemicals web site.

Note

All BASF Technical Data Sheets are updated on regular basis; it is the user's responsibility, to obtain the most recent issue.

Field services where provided, does not constitute supervisory responsibility, for additional information contact your local BASF representative.

Disclaimer

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the

competence of any labour involved in the application are beyond our control.

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