

MASTERSEAL® 110P

Solvented coal tar epoxy resin coating

Description

MASTERSEAL 110P is based on coal tar modified with epoxy resin and solvent to facilitate spray application. The excellent adhesion of MASTERSEAL 110P to concrete and steel afford the product a variety of different applications.

The chemical resistant properties of MASTERSEAL 110P make it particularly suitable in aggressive environments such as are found in sewage works.

Primary uses

For the coating of steel, concrete and asbestos cement, where a heavy duty protective, waterproof, resilient and abrasion resistant coating is required.

Advantages

- Excellent general chemical resistance.
- Easily applied by brush, roller or spray.
- Suitable for multi-layer applications.
- Abrasion resistant.
- Durable, resilient.
- Supplied in pre-weighed units.

Typical applications

- Manhole covers and linings.
- Concrete bases and foundations.
- Coating engineering bricks.

- Lining drainage and sewage pipes.
- Non-slip walkways, traffic decking.
- Protection of steelwork in aggressive environments.

Packaging

MASTERSEAL 110P is supplied in 10 litre units.

Typical properties*

* Properties listed are only for guidance and are not a guarantee of performance.

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| Pot life at 35°C: | 2 hours |
| Mixed density: | 1.35g/cm ³ at 25°C |
| Coverage: | 4-7m ² /ltr depending on film thickness |
| Dry film thickness on non porous concrete: | 130 microns per coat at 5.4m ² /litre, or 0.25kg/m ² (2 coats recommended) |
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| Finished film appearance: | Smooth, glossy, dense black surface |
| Chemical resistance: | Excellent to most aqueous systems, sewage, urine, fresh water, sea water, diluted and concentrated alkalis, diluted acids, mineral, vegetable and animal oils and fats, ammonia, formaldehyde. |

Guide to application

Surface preparation:

As with all epoxy resin systems, surface preparation is of prime importance. It is essential that thorough surface preparation is undertaken to ensure that the system develops maximum performance.

For concrete surfaces, remove all grease, oil, dust, laitance, etc., and ensure substrate to receive the coating is sound. Where necessary cut back and make good.

Mechanical methods of preparation may be necessary to remove laitance. Concrete cured with curing membranes should have the membrane removed before application.

Blow holes, pin holes and other surface defects should be filled with CONCRESEIVE 2200.

Metal surfaces should be clean, dry, and free from grease, oil and rust.

Mixing:

MASTERSEAL 110P is supplied in pre-weighed units consisting of individually packaged base and reactor.

The entire contents of the base and reactor tins must be thoroughly mixed together before use. This is best achieved by mixing with a slow speed drill fitted with a mixing paddle. Ensure that both materials are mixed until a uniform colour is achieved. No additions or omissions are required, and on no account should attempts be made to split packs.

Application:

Airless spray, brush or roller applications are recommended. A dry film thickness of 130 microns can be achieved with one coat at the recommended coverage rate. Apply the MASTERSEAL 110P ensuring no pin holes, etc., are visible and the background is completely covered. Allow to cure overnight before applying a second coat to achieve desired film thickness. Where possible the second coat should be applied at right angles to the first. For most applications, reliable

protection can be achieved with a dry film thickness of 250 microns. The porosity and texture of the substrate will affect the coverage rate.

Equipment care

Spray guns, rollers, brushes etc., should be cleaned immediately after use with CLEANING SOLVENT NO. 2.

Storage

Up to 12 months when stored under cover, out of direct sunlight and protected from extremes of temperature.

Health and safety

As with all chemical products, care should be taken during use and storage to avoid contact with eyes mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use.

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local Degussa representative.

Degussa reserves the right to have the true cause of any difficulty determined by accepted test methods.

Quality

All products produced by Degussa certified manufacturing facilities, are produced to conform to systems designed to meet internationally recognised quality standards.