Mainstay® DS-5™
High Build Epoxy Coating

Features/Benefits

Permanent Flexibility
Abrasion Resistant
Good Visibility in Low Light
Superior Chemical Resistance
High Moisture Cure
Superior Toughness

Product Description

MAINSTAY DS-5 High Build Epoxy Coating utilizes a unique, multi-component curing system that contributes to a number of superior properties: toughness, permanent flexibility, and improved chemical and temperature resistance. This system may be applied at thicknesses up to 125 mils in single or multiple applications, thereby reducing application costs. The absence of solvent reduces shrinkage, cracking, disbonding and eliminates problems related to solvent entrapment. MAINSTAY DS-5 is designed for use where corrosion is anticipated or known to be moderately aggressive (pH > 1.0, H2S < 100 ppm) and is particularly well suited for use as a topcoat over MAINSTAY ML-72™ Sprayable Microsilica Restoration Mortar (see section on Application).

Product Data

Composition:
100% solids, chemically modified epoxy coating.

Finish:
Gloss.

Colors:
White, sky blue; custom colors available upon request.

Recommended Thickness Range:
50 to 125 mils in one or two coats, depending on the application. Consult a Mainstay Technical Representative for specific recommendations.

Coverage:
Approximately 16 square feet (ft²) per gallon at 100 mils; 72 ft² per kit at 100 mils. Allowances should be made for waste.

Packaging:
4.5 gallon, two component kits standard; special packaging available.

Surface Preparation:

Steel: Apply only to clean, sound surfaces. All metal surfaces should be degreased or otherwise decontaminated prior to abrasive blast cleaning. Surfaces should be abrasive blast cleaned to a near white (NACE No. 2 or SSPC SP 10) condition with a 2 to 4 mil anchor pattern depth.

Concrete: Prepare all surfaces by removing surface contaminants such as old coatings, adhesives, curing compounds, dirt, efflorescence, grease, and similar substances. Surface contaminants must be removed by any effective combination of detergent scrubbing, pressure washing, high pressure water blasting, abrasive blasting, grinding, and/or scarifying.

Concrete that has been contaminated with oils, sugars, resins, or other contaminants that cannot be readily removed by the methods described above may require additional surface preparation by chemical cleaning, steam cleaning, or other surface treatment.

Acid etching is not recommended for the removal of surface contaminants prior to surface preparation or as a method of surface preparation.

When in doubt, adhesion should be checked by the application of a test patch.

Smoothing Rough Substrates & Filling Voids:

Rough or deteriorated concrete should be smoothed and/or repaired using MAINSTAY ML-72™ or MAINSTAY ML-72F™ Sprayable Microsilica Restora-
I shorted at higher temperatures.

Approximately 45 minutes at 80° F.

MAINSTAY DS-5 can be applied to
MAINSTAY ML-72 within one to two
hours after the MAINSTAY ML-72
has been placed and finished (when the
MAINSTAY ML-72 has just become
firm to the touch). The unique and es-
sentially simultaneous application of
these two products is the basis for the
Mainstay Composite Liner™. The ap-
plication of these two products by this
technique should be performed by trained
workmen. Contact a Mainstay Technical
Representative for additional
information regarding specific applica-
tion instructions.

Foot traffic: 24 hours at 70° F.

Immersion service: 24 hours to 3 days,
depending on temperature.

Foot traffic:

Immersion service:

Cure Time:

Use MEK, xylene, or a combination of
the two to clean application equip-
ment. Skin should be cleaned using warm,
soapy water or commercial hand cleaner.

DELIVERY AND STORAGE:
Check containers for damage, and ver-
ify quantities before accepting ship-
ments. Store components in sealed
containers in a dry environment at
moderate temperature conditions (40°
F to 80° F).

DELIVERY AND STORAGE:

Application:

This product is to be applied by trained
workmen using specialized equipment.
Both components must be preheated
between 70° F and 90° F prior to appli-
cation. A 56:1 airless spray pump with
an air input pressure of ~90 pounds per
square inch (psi) is used to feed mate-
rial through up to 50’ of 3/8” diameter
hose to a standard airless spray gun
with a 0.031” to 0.035” reversible tip.
It is recommended that 60 mesh in line
strainers/filters be used. Other equip-
ment, such as whip hoses, heaters, or
plural component equipment may be
employed. MAINSTAY DS-5 can also
be applied by brush or roller. Contact a
Mainstay Technical Representative for
specific application equipment recom-
pendations.

MAINSTAY ML-72:

This product is to be applied by trained
workmen using specialized equipment.
MAINSTAY ML-72 has been placed and
finished (when the MAINSTAY ML-72
has just become firm to the touch). The
unique and essentially simultaneous
application of these two products is the
basis for the Mainstay Composite Liner™.
The application of these two products by
this technique should be performed by
trained workmen. Contact a Mainstay
Technical Representative for additional
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tion instructions.

Foot traffic:

Immersion service:

Cure Time:

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the two to clean application equip-
ment. Skin should be cleaned using warm,
soapy water or commercial hand cleaner.

DELIVERY AND STORAGE:
Check containers for damage, and verify
quantities before accepting shipments.
Store components in sealed containers in a
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