

SOLIDKOTE MATRIX HP / MS

Chemical resistant high temperature resistant resin

DESCRIPTION

Solidkote MATRIX HP/MS is a high performance (MEDIUM SET) extremely chemical resistant epoxy resin that is specifically designed for demanding applications. It can also be applied as a roller coat on steel tanks or in combination with Glass fiber reinforcing membrane and chemical resistant C glass veil for optimum chemical and temperature resistance. Ideal for tanks exposed to extreme conditions in the pulp and paper industry, sugar industry, petroleum industry, Acid processing plants and tank farms, etc

Also ideal, with the addition of fillers , for casting resins , moulds and foundry patterns.

BENEFITS:

Excellent chemical resistance to a wide variety of corrosive environments.

High mechanical properties.

High temperature resistance.

Extremely tough and crack resistant.

Excellent scratch and mar resistance / easy to clean.

Low odour.

Thermal shock resistant.

USES:

- Ideal for protection of concrete tanks, equipment bases, floors and drains against aggressive chemicals.
- Tank farms and chemical storage tanks.
- Acid bunds, tank linings.
- Chemical loading bays.

- Chemical resistant to 50% Sulphuric acid, 20% HCL , 5% Acetic acid, 30% Sodium Hydroxide.

SUBSTRATE REQUIREMENTS:

Surfaces to be coated must be clean and free of dust, oily residues and loose friable material. All surfaced to be suitably prepared using grinders, shot blasting or scarifiers to remove laitance.

Substrate must be a concrete screed Grade 2 evenness and must be a minimum of 20MPa compressive strength and must have a tensile pull off exceeding 1.5 Mpa. The substrate should be dry to 75% RH (BS 8204) and free from rising damp or ground water pressure.

Prime with Solidkote STP primer in damp conditions or adverse conditions

TECHNICAL DETAILS:

Application : Roller
Chemical resistance : Consult Technical finishes' technical department for details.

Mix ratio : 4:1 by volume
By mass : 2.28kg:0.5kg

Pot Life : 25 - 30min

Mixed viscosity : 800 – 950 cps

Shore D hardness : 80

Tg : 80 - 85

Typical Laminate Properties

Finish : Gloss
 Glass content :33% (2 x 450 GSM glass cloth)
 Application Temp : 5 - 30°C
 Tensile strength :> 125 Mpa ISO 527-1993
 Service Temperature : 110 °C max dry
 Tensile Modulus: > 7800 MPa

Dry Film Thickness : 1 - 3mm system
 Flexural strength: > 200 MPa ISO 178-2001

Colour : Clear/amber
 Walk on time : 12hrs at 20 °C
 Full cure : 3 days
 System details : Primer Solidkote STP primer and Solidkote HP Matrix

Detailed application instructions are available upon request.

APPLICATION:

This is a specialized system that must be installed by an approved applicator with documented quality assurance. Consult

Technical Finishes for list of approved applicators.

Health and safety: They system contains styrene and all appropriate PPE must be worn. Please consult Health and Safety Data sheets for each product.

Technical Finishes products are guaranteed against defective materials and are manufactured under high quality standards and are sold subject to its standard Terms and Conditions of Sale, copies of which can be obtained on request.