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Coating Criteria Chart

Surface Prep:

All Internal linings require the best surface prep possible. Brother's does not recommend anything less than a White Metal Blast (NACE 1 / SSPC SP5) for all of the lining systems that it applies.

Internal Lining Systems:

Devoe 253, Tnemec 61 series -

Sour **Service Temperatures up to 93°C**.
Can be used in tanks, vessels and piping applications.

Highland 74HF series -

Produced water, Sour **Service Temperature up to 135°C** Good for Methanol Service as well.

Devoe 233H, Tnemec 141 Series -

Fresh & Potable Water, NSF Specification, AWWA C-210. **Service Temperature up to 80°C**. Can be used in tanks, vessels and piping applications.

Abrasion Resistant Linings:

Tnemec 142 Epoxy -

Abrasion resistant, high solids, epoxy coating which offers high-build edge protection and excellent corrosion resistance. Contains micro-fiber reinforcement for improved film integrity. For use on the interior and exterior of steel or concrete tanks, pipes, and other heavy-duty equipment in industrial service.
Service Temperature up to 80°C

Highland 74AR series -

Produced water, Sour **Service Temperature up to 135°C** Good for Methanol Service as well. Formulated with Abrasion Resistant technology for abrasive and corrosive applications. Can be used in tanks, vessels and piping applications.

Devoe 268 Epoxy -

Chemical / Abrasion Resistant Lining. Sour **Service Temperatures up to 93°C**. Can be used in tanks, vessels and piping applications.

High Pressure Lining:

Devoe 256 Epoxy -

Can be used as an alternate to Devoe 253; **Higher Temperature Service to 140°C**; Designed for CO2 applications. Can be used in tanks, vessels and piping applications.

External Coatings: Near White Metal (NACE 2 / SSPC SP10) Surface Prep

Below Grade

Novocoat SC2200 100% solids For buried service requirements. **Temperature Limits of 100°C.** Meets TransCanada Pipeline testing requirements. Exceeds yellow jacket / tape wrapping requirements. Meets CSA Z245.20-06.

Novocoat R200 100% solids For higher **temperature applications up to 200°C.** Meets TransCanada Pipeline testing requirements. Exceeds yellow jacket / tape wrapping requirements. Meets CSA Z245.20-06.

Denso Protol 7250 100% solids For buried service requirements. **Temperature Limits of 85°C.** Approved coating for most Buried Service Pipeline Specifications.

Under Insulation: Near White Metal (NACE 2 / SSPC SP10) Surface Prep

Devoc 236 epoxy **Service Temperature up to 93°C**

International 228 Epoxy Intertherm 228 has been specifically designed to provide a corrosion resistant barrier when used to protect steelwork beneath thermal insulation in areas subjected to wet and dry cycling. Suitable for exposure in a wide range of highly corrosive environments, including insulated and uninsulated steel, and on the exterior or pipework, process vessels etc., **operating at temperatures up to 446°F (230°C).** Intertherm 228 has excellent resistance to "thermal shock" experienced during rapid temperature cycling.

Tnemec N69 Epoxy An advanced generation epoxy for protection and finishing of steel and concrete. It has excellent resistance to abrasion and is suitable for immersion as well as chemical contact exposure. This product can also be used for lining storage tanks that contain demineralized, deionized or distilled water. **Service Temperatures up to 121°C**

Carboline Thermaline 450 Highly cross-linked, glass flake-filled polymer that offers exceptional barrier protection and resistance to wet/dry cycling at elevated temperatures. Suitable for insulated and non-insulated pipes, stacks and equipment **operating up to 450°F (232°C).** This coating provides excellent resistance to corrosion, abrasion and permeation, and its novolac-modification resists severe chemical attack.

Above Grade Applications: Commercial Grade (NACE 3 / SSPC SP6) Surface Prep as a minimum.

Tnemec N69 External epoxy primer / Tnemec 73 series Polyurethane

Devoe 235 epoxy / Devoe 389 Polyurethane External Paint system

Carboline 859 Organic Zinc / Carbothane 134HG Polyurethane

Shop (Alkyd) Primer / Alkyd Enamel: Commercial Grade (NACE 3 / SSPC SP6) surface prep as a minimum.

Cloverdale 71024 Alkyd Primer / Cloverdale Enamel

Brother's can help with a variety of liquid coating applications. As each application is unique to its own specification, it is best to contact a Brother's representative for further information and project specifications to ensure you are using the right application.

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