Introduction

The following general procedure is applicable to small vessel skirts operating at temperatures of up to 50°C and should be read in conjunction with any specific requirements of the client detailed in their, or their Engineer's, Specification that may have been prepared for the project. This data sheet is applicable to skirts having an inner or outer surface area of up to 20m². Promat FENDOLITE® MII used on these vessel skirts shall be reinforced with PROMAT® Plastic Coated Galvanised Mesh or galvanised 50mm x 50mm x 1.4 – 1.6mm hexagonal wire mesh – see section 7 for reinforcement details. In general, both inner and outer skirt surfaces will require protection. Unless directed to the contrary in this proposal, Promat FENDOLITE® MII shall be mixed and applied in accordance with the current Promat FENDOLITE® MII & FENDOLITE® TG Energy Industries Application Manual.

Inspection of steel surfaces

All steel surfaces to be protected shall be in good condition, adequately protected from possible corrosion, be free from oil, grease, dirt, dust, grime or any other contaminants likely to impair adhesion of PROMAT® PSK101.

Attachment of mesh retention pins

If permitted, stud welded pins may be attached to the skirt at 400mm centres in order to assist the location of the mesh reinforcement. The paint system will require reinstatement with an approved touch-up paint after the pins are welded to the substrate. If the skirt is relatively small in diameter, mesh may be wrapped around and secured to itself after the initial application of Promat FENDOLITE® MII. If the skirt is of such dimension that wrapping and securing to itself is not practical and welded fixings are not permitted, the wire reinforcement may be fitted to adhesive insulation pins providing they are only used as a temporary location aid since their performance in fire conditions will not be adequate.

Priming requirements

Anti-corrosion and paint requirements are beyond the scope of this procedure. However, where the Promat FENDOLITE® MII System is to be applied directly to steel substrates, Promat recommend that the surfaces be blast cleaned to SA 2½ in accordance with SIS 05 59 00:1967 and are primed and painted with a two-pack epoxy system, applied and cured in accordance with the manufacturer's recommendations.

Application of PROMAT® PSK101

All items of primed steelwork which are to be protected with Promat FENDOLITE® MII shall receive one coat of PROMAT® PSK101 applied at a wet film thickness of 100-150 microns (55-82 microns DFT) which must be allowed to cure and dry.

Initial application of Promat FENDOLITE® MII.

In common with other current Promat specifications, it is recommended that Promat FENDOLITE® MII is initially applied as a series of horizontal collars or bands around the skirt. The bands shall be 200 - 300mm in width and at not less than 500mm and no more than 1000mm centres and should be approximately 50% of the final Promat FENDOLITE® MII thickness. If the application of bands is

impractical, a first coat of Promat FENDOLITE® MII approximately 50% of the final thickness should be applied. In either situation, Promat FENDOLITE® MII must be left with a rough texture to ensure adequate bonding of the subsequent coat and if the underlying material shows a colour change (due to drying) it must be dampened with clean water before proceeding further.

Installation of mesh reinforcement

Promat propose the use of either PROMAT® Plastic Coated Galvanised Mesh or galvanised 50mm x 50mm x 1.4 - 1.6mm hexagonal mesh which should be attached to the previously fixed welded or adhesive pins. A minimum overlap of two mesh apertures is required at all joins which should be securely tied with galvanised wire ties, galvanised hog rings or by twisting cut ends of the mesh together at 150mm centres.

NOTES:

- *No more than three layers of mesh must overlap at any one point.*
- *In order to avoid galvanic contact between the mesh and the vessel skirt, it may be necessary to add biscuits to stand the mesh off the surface.*

Application of subsequent coat(s) of Promat FENDOLITE® MII

Spray apply a further coat of Promat FENDOLITE® MII to achieve the specified thickness. Where possible, Promat FENDOLITE® MII shall be applied as a single coat to the required thickness. The final coat shall be at least 8mm thick to avoid cracking. Promat FENDOLITE® MII **must not be trowelled flush with the reinforcing mesh**, as this can create a plane of weakness. The suggested finishing technique is to level the surface with a steel float to close down the surface.

Water shedding and sealing of Promat FENDOLITE® MII / steel junctions

Top surfaces and all terminations of Promat FENDOLITE® MII against steel must be sloped to shed water. Promat FENDOLITE® MII / steel junctions shall be sealed by cutting a 'U' shape into the material and applying a polysulphide or silicone based mastic sealant.

NOTE: Promat recommend that the mastic seal is not applied until after any final surface treatment.

Final surface treatment

Promat propose that on curing and drying of the Promat FENDOLITE® MII, the surface is treated with a Promat approved topcoat paint system. The selected topcoat system must be applied strictly in accordance with the manufacturer's recommendations. It is necessary to maintain the correct environmental conditions as stipulated in our current Promat FENDOLITE® MII & Promat FENDOLITE® TG Petrochemical Application Manual immediately before, during and after the particular application. Refer to Energy Industries Data Sheet EIDS 033 - Sikalastic (Decothane) Application Procedure.

The information given in this Application Procedure is based on practical experience, independent and other tests and represents, in Promat's opinion, the best technical advice available. Since the products are applied under circumstances beyond our control, Promat can accept no direct or consequential liability, whether in contract or in tort, for the interpretation of such recommendations and reserves

the right to modify the recommendations as necessary. Should it be unclear as to the meaning of any of the instructions given above, or if further information is required, please consult Promat.