How to obtain adequate bonding of Promat FENDOLITE® MII

The following application method statement is applicable to structural steel columns, beams, and vessel supports, vessels, spheres, vessel skirts and concrete elements and shall be read in conjunction with the specific requirements of the client as detailed in the guideline specification prepared for the project.

Adequate bonding of Promat FENDOLITE® MII can be obtained in two ways. The choice is dependent on the factors mentioned below. The instructions given below are valid for meshed systems. In case of mesh-free systems additional requirements apply, refer to EIDS 063.

PROMAT® PSK 101

PROMAT® PSK 101 is a water based synthetic latex (PSK = Primer sealer keycoat) which facilitates the bonding between the following substrate and Promat FENDOLITE® MII. It is required in the following cases:

- Galvanized steel surface,
- Zinc silicate primed steel surfaces,
- Alkyd primed steel surfaces,
- Steel surfaces with an alien (unknown) coating,
- Surfaces painted with a glossy paint, e.g. PU.

In case of galvanized steel or zinc silicate primed steel without a tie coat, clean off zinc salt contamination by sweep blasting. For the application procedure of PROMAT® PSK 101, refer to EIDS 050.

Keycoat of PROMAT® SBR Bonding Latex mixed with Promat FENDOLITE® MII

A keycoat of PROMAT® SBR Bonding Latex mixed with Promat FENDOLITE® MII can be applied to steel surfaces with a compatible primer and to concrete surfaces. A keycoat is especially recommended in case of large surfaces such as the webs of deep steel beams, in order to manage a thicker first pass and in order to resist vibration or seismic effects.

This product is used as a splatter or mist coat in order to enhance the adhesion of Promat FENDOLITE® MII with the substrate. For application of PROMAT® SBR Bonding Latex dilute with fresh potable water and **mix with Promat FENDOLITE® MII**. For the application procedure, refer to EIDS 019 for application on steel and EIDS 020 for application on concrete.

Special considerations

In some cases, based on spray and adhesion trials, it may be decided that neither or both of the methods are necessary. Especially on vessel skirts it may be necessary to apply both measures (PROMAT® PSK 101 **and** keycoat).

Two-pack epoxy primers are generally compatible with Promat FENDOLITE® MII. However, such primers are sensitive to UV-exposure, which causes degradation of the epoxy polymers ("chalking out"). This can lead to loss of adhesion even if initially the Promat FENDOLITE® MII bonds well to the substrate. Therefore, epoxy primers shall be protected against UV radiation from the time of application to the time of applying Promat FENDOLITE® MII.

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.