



# TECHNICAL DATA SHEET

## HODT Multi Film

Revision: 01.2013

<b>1. Description</b>	<p>HODT Multi Film is a revolutionary water based "hybrid" paint which contain not only a physical drying epoxy resin dispersion but also an oxidatively drying binder. This combination of resins performed an easy to use, tight elastic, hard primer for 'lock-out' corrosion on a wide range of metals and an attractive clear, glossy and UV resistant finish topcoat.</p>
<b>2. Color</b>	<p>Opaque (transparent)</p>
<b>3. General usage</b>	<p>HODT Multi Film has excellent adhesion to most substrates including galvanized steel, old enamels, aluminium, copper, primed exterior wood and concrete. When used for impregnation of concrete Multi Film should be diluted with water (1 part Multi Film : 2 parts water). The product can be applied in one or more coats for extension of service life.</p> <p>HODT Multi Film can be used for the production of polymer-modified concrete. Multi Film added to Portland cement gives a new product with certain unusual properties. The polymer concrete has very high strength, is a nonabsorbent and possess exceptional resistance to acid. Can be also used as a thick coating (film thickness above 2 mm) for underground pipelines. The coating is elastic, temperature resistant (above 100 °C) and has and gives an excellent chemical resistant barrier against corrosion.</p>
<b>4. Principal characteristics</b>	<ul style="list-style-type: none"><li>• The advance of the water-borne hybrid system can be employed to produce high performance epoxy primers which are comparable to their solvent born epoxy primers.;</li><li>• It is a water soluble, very cost effective product for surfaces needing a binding, highly adhesive sealer for chalky, perished or fretting substrates;</li><li>• Very low VOC (Volatile Organic Compound);</li><li>• High water stability;</li><li>• Non-flammable</li><li>• Quick oxidative drying;</li><li>• Excellent corrosion resistance;</li><li>• Very good toughness and peel resistance;</li><li>• Single component;</li><li>• The product can be applied by spray (airless, or air assisted) or by brush;</li><li>• Can be diluted with water in any ratio;</li><li>• For a service life of 7 years at least 2 - 3 coats should be applied (dft minimum 120 µm);</li></ul>
<b>5. Technical data</b>	

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	<ul style="list-style-type: none"> <li>• The product is UV protected ;</li> </ul> <p>;</p> <p>.Odour                              mild  Boiling point                        100 °C  Vapour pressure                    &lt;25 hPa(calculated) @ 20°C  Density                                ~1,02 DIN EN ISO 2811-2  Solid contents                        34 – 36 % DIN 55671  Volatile substances                64 – 66 % by weight (mainly water)  pH-Value                              8 – 9 DIN ISO 976  Viscosity (dynamic EN ISO 3219) 2500 – 12000 mPa.s 1/10</p>
<b>4. Package</b>	<p>1 l plastic can  5 l metal can  20 l metal pail (not returnable)</p>
<b>5. Storage</b>	<p>Preferable store temperature: between 5 – 30 °C.  Protect from frost..  Lowest storage temperature: - 5 °C  Protect from extremes of temperature  Storage minimum: 12 months if stored under recommended conditions</p>
<b>6. Technical data for use</b>	<p><b>Coverage:</b>  The following are approximate application rates:  Metal: 7,3 – 9,8 m<sup>2</sup>/l (for a film-thickness of 21 - 30 µm, wet film thickness 60 µm)  Concrete: 6,1 – 7,3 m<sup>2</sup>/l (diluted 1 : 2 with water)</p>
<b>7. Recommended Surface condition</b>	<p><b>Steel</b>  The recommended cleaning standard is St 2 acc. to ISO 8501-5 referring to hand or hand tool methods (needle hammering, chipping, grinding) and Wa 2 water-jetting. HODT Multi Film should be applied in one coat when used as a primer to a thickness of approximately 30 µm and the coverage 7,3 – 9,8 m<sup>2</sup>/l depending on the surface roughness. When used without a topcoat , e.g.with Perma Film, then for a long time protection at least 2 - 3 coats of Multi Film should be applied..</p> <p><b>Galvanised steel and aluminium surfaces:</b>  The surfaces should be degreased, cleaned from corrosion products (e.g. zinc corrosion products) and other contaminants.</p> <p><b>Concrete surfaces:</b>  Concrete can be sealed after at least 28 days (at 20 °C) of hardening  The concrete should be dry (humidity max. 4%), free of sand and degreased.</p> <p>.</p>
<b>8. Application details</b>	<p>The HODT Multi Film needs no field mixing and is suitable for easy application using airless /pneumatic spraying or roller and brushes. It can be applied at low temperatures but not below - 5°C and in hot weather. Avoid painting in direct sunlight. Do not apply if rain or dew is likely during the drying period. New paintwork should not be exposed to steam or condensation for 48 hours. Protect the coating from</p>

abrasive contact for 7 days under high humidity. At low temperature the curing time of the coating before applying the topcoat will be very long (more than 24 hours).

The Multi Film is applied in one coat to a thickness of abt. 30 – 40 µm depending on the surface roughness.

**Drying Times**

Touch dry time - 20 minutes

Recoat dry time - 2 hours

Drying times refer to normal conditions (20 -25 °C, 50% humidity).

Under cooler or humid conditions, longer drying times may be necessary.

For coating of metals use, when possible, only unthinned Multi Film.

The applicator should be equipped with a respiratory mask for ammonia when sufficient ventilation cannot be provided.

The coated surface can be damp or moist, but without droplet and standing water, however, the air humidity should be low

The visual appearance of the Primer coat should not show runs, rips or sags.

When application is complete, wash equipment with water before the coating dries. Dried Multi Film is very difficult to remove.

**9. Sensible precautions**

Avoid deliberated contact with skin. Consult MSDS (Material Safety Data Sheet) for full safety details.

R20/21/22 - Harmful by inhalation, in contact with skin and if Swallowed

R36/38 - Irritating to eyes and skin