

Suitable corrosivity categories/durability ranges

TSM

Paint system ISO 12944-5	Low	Medium	High	Very high
TSM4.02	TSM	TSM	TSM	TSM
TSM5.01	TSM	TSM	TSM	

TETSM4.02 Very high
TETSM5.01 High

TEKNOPLAST PRIMER 5, THERMALLY SPRAYED METAL

Paint systems 200 µm

1 1.8.2018

TEKNOPLAST PRIMER 5 paint systems for thermally sprayed metal consist of epoxy and polyurethane top coats. TEKNOPLAST PRIMER 5 is also used as a sealer on thermally sprayed metal substrates. For sealer usage TEKNOPLAST PRIMER 5 is diluted 20–40 % by volume with TEKNOSOLV 9506. The function of the sealer is to fill the metal pores and to form an even, non-measurable layer on the surface. Epoxy paints have from their nature good mechanical and corrosion protection properties. Polyurethane paints have good gloss and colour retention properties outdoors.

Where excellent gloss and colour retention is expected of the surface finish, it is recommended to add 40 µm dry film of TEKNODUR 0250, 0290 or 295-900 clear coat as a top layer on top of the polyurethane (PUR) paint system described below. Please consult TEKNOS representative for choosing the most suitable product.

These paint systems are designed for corrosivity categories C4 – C5 with durability classes very high - high.

		EP- top coat	PUR- top coat
Paint		A1	A2
TEKNOPLAST PRIMER 5 (Sealer)		NA	NA
TEKNOPLAST PRIMER 5	EP	1x80 µm	1x80 µm
TEKNOPLAST HS 150	EP	1x120 µm	
TEKNODUR COMBI 3430-series	PUR		1x120 µm
Total film thickness		200 µm	200 µm
Paint system VOC, g/m ²		117	135 - 156

Example of Teknos paint system code	Example of paint system structure
TETSM4.02/VH/A1	ISO 12944-5/TSM4.02-EP (EP200/2-TSM).
TETSM5.01/H/A2	ISO 12944-5/TSM5.01-EP/PUR (EPPUR200/2-TSM).

These Teknos painting systems have been designed in accordance with ISO 12944:2017-2018 standards. In order to reach the durability ranges in specified corrosivity categories, care must be taken to ensure full compliance of steel construction design, steel prework and surface preparation quality with ISO 12944 standards.

Surface preparation Thermally sprayed metal coatings shall be painted immediately after thermal spraying before any condensation can take place.

For more detailed information about of the above-mentioned products please see individual product data sheets.