

# Heat resistance of PercoTop®

**Description**

Resistance to high operating temperatures according to ISO/DIS 3248.  
 This documents describes the performance of PercoTop® products when exposed to high temperatures for short or long time spans.

## Products

When operation under prolonged high temperatures is expected, different combinations of products can be used. As the most useful options, we recommend the following.

**Undercoats**

CS310-CS315	PercoTop® 1K Primer 010
CS340-CS345	PercoTop® 2K HS Primer 040
CS371	PercoTop® 2K VHS Power Primer 4000
CS381	PercoTop® 2K Epoxy Primer
CS382	PercoTop® 2K Zinc Rich Epoxy Primer 053
CS581	PercoTop® MIO Epoxy Coating

**Topcoats**

611/633	PercoTop® 2K DTM Topcoat / PercoTop® 2K Outdoor DTM Topcoat
449/466	PercoTop® 2K Structure Topcoat / PercoTop® 2K Outdoor Structure Topcoat
Acryl 100	PercoTop® 2K Acrylic Topcoat
PUR	PercoTop® 2K MS Topcoat
EP	PercoTop® 2K Epoxy Topcoat
771	PercoTop® 2K HS All-Round Topcoat
9675	PercoTop® 2K HS Topcoat

Slight colour changes or gloss loss are in many cases accepted if the product is sufficiently resistant to heat, provided the other paint properties do not change. The tables below also describe at what temperatures and exposure times mechanical properties may start to get affected.  
 In the tables below, *embrittlement* refers to a loss of flexibility and lower scratch resistance. The PercoTop® systems do not start to flake or to crack. We do not recommend using the products mentioned above continuously at temperatures above 160 °C.

**For professional use only!**

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### White, light grey and pastel colours

Temperature	30 minutes	24 hours	5 days	Continuous exposure
+ 120 °C	no colour change	no colour change	slight colour change	slight colour change
+ 140 °C	no colour change	slight colour change	severe colour change	slight embrittlement
+ 160 °C	no colour change	severe colour change	severe colour change	embrittlement

### Saturated bright colours

Temperature	30 minutes	24 hours	5 days	Continuous exposure
+ 120 °C	no colour change	no colour change	slight colour change	slight colour change
+ 140 °C	no colour change	no colour change	slight colour change	slight embrittlement
+ 160 °C	no colour change	slight colour change	severe colour change	embrittlement



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### Information

The information provided herein corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the specific material designated; these data may not be valid for such material used in combination with any other materials or additives or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits or used alone as the basis of design; they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since Axalta cannot anticipate all variations in actual end-use conditions Axalta makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent rights.

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