

Film* Results

Property	Test Description	Peka Pro-HT120	Peka Pro-HT140
Cathodic Disbondment	CSA-Z245.20- 12.8	Disbondment Radius (mm)	Disbondment Radius (mm)
	28d, 95°C, -1.5 V	3	7
	28d, 65°C, -1.5 V	2.5	5
Hot Water Adhesion	CSA-Z245.20- 12.14	Rating	Rating
	28d, 75°C	1	1
	28d, 95°C	1	1
Flexibility	CSA-Z245.20- 12.11		
	2°ppd, -30°C	No Cracking	No Cracking
Impact	CSA-Z245.20- 12.12		
	-30°C	≥ 5 j	≥ 5 j
Strained Coating Cathodic Disbondment	CSA-Z245.20- 12.13		
	2.5° ppd 28d, 65°C, -1.5 V	No Cracking	No Cracking

* Performance will be influenced by quality of surface preparation, film formation and curing conditions. The above test results are typical for 250-500 µm Peka-Pro HT120 and Peka Pro-HT140 applied on steel panels cleaned to Near-White Blast SA2.5 (without acid wash or any pre-treatment)



High Operating Temperature FBE



About us

Peka Chemie Co.

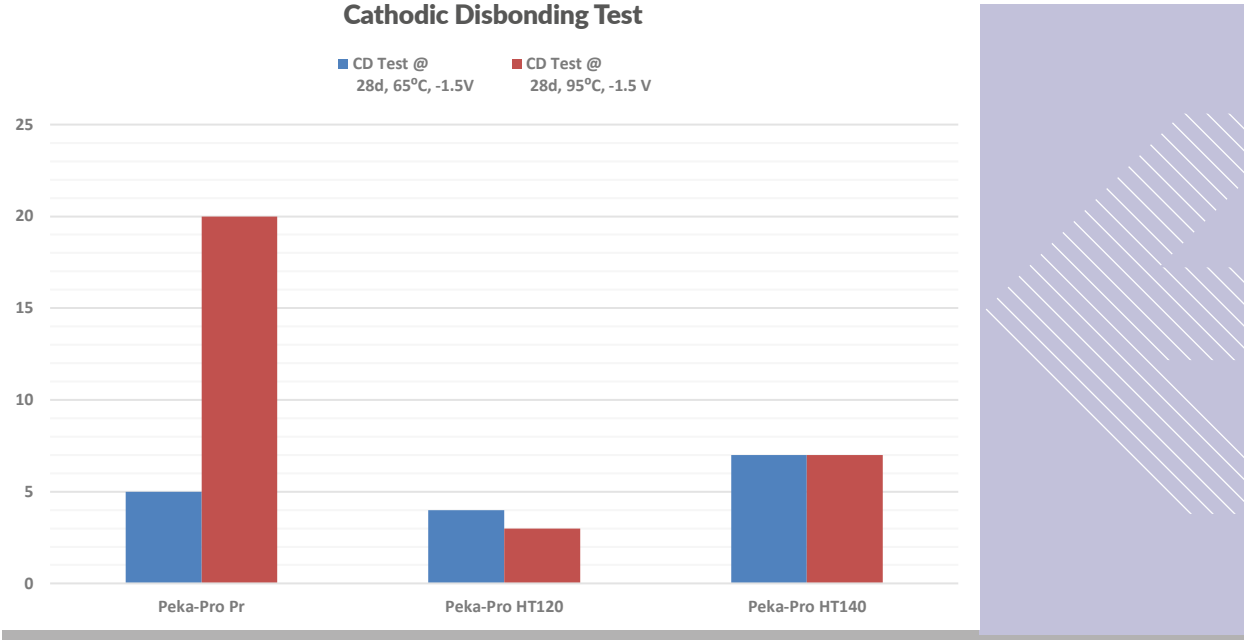
PEKA CHEMIE Company was founded in March, 1995 with the aim of producing different kinds of powder coatings. As the biggest producer of powder coatings based in Iran, PEKA CHEMIE has been supplying the highest quality of powder coatings including decorative, industrial and fusion bonded epoxy. PEKA CHEMIE, based on technical knowledge of its experts, technological and experience background is known as the only and stand-alone producer of fusion bonded epoxy in Iran.



Introduction

Corrosion and degradation of the water, oil and gas transportation steel pipelines is one of the serious problems in various industries; and repairing or replacing of destroyed pipes causes a lot of costs. One of the most effective methods for corrosion protection of the pipelines is the application of the organic coatings along with the cathodic protection process.

Steel pipelines coated with organic protective systems must be tolerated for stresses caused by transportation, working operations and soil effects. Also, when cathodic protection is carried out on a coated pipeline, the coating can be delaminated from the surface through the destructive conditions and cathodic reactions. In this case, the cathodic disbonding extends radially from the defects in the coating. Therefore, study on the production of powder coatings with a significant resistance to corrosion and cathodic disbondment have always been considered by researchers and experts worked in the PEKA CHEMIE industrial company. FBE is a group of epoxy powder coatings that is used as a protective coating for steel pipelines reinforced steel bars due to their high anti-corrosion and barrier properties.



High Operating Temperature FBE

Peka-Pro HT

Peka Chemie has introduced a new Fusion Bonded Epoxy (FBE) technology Peka-Pro HT120 and Peka-Pro HT140. Peka-Pro HT protects oil and gas pipelines against corrosion while they operate at high temperatures. Peka-Pro HT120 and Peka-Pro HT140 products are a one-part, heat curable thermosetting epoxy powder designed as a stand-alone or as the corrosion coating for a dual layer FBE and multilayer polyolefin system for the corrosion protection of pipe. These new FBE coatings have excellent thermal properties that protect natural gas and crude oil pipes against corrosion. Peka-Pro HT120 and Peka-Pro HT140 can operate up to 115°C and 135°C respectively as a stand-alone coatings.