

Araldite Ly 1564 Aradur 22962 Huntsman Corporation

Overhauling of Steel Pipes Using Vacuum Bagging Processed CFRP→Patch
Adhesives and Adhesive Joints in Industry Applications
Advances in Manufacturing and Industrial Engineering

Araldite Ly
1564 Aradur
22962
Huntsman
Corporation

Downloaded from
ecobankpayservices.ecobank.com
by guest

JORDAN SHERMAN

Overhauling of Steel Pipes
Using Vacuum Bagging
Processed CFRP→Patch
Springer Nature

The present work deals with the experimental study on rehabilitation of damaged steel pipes. The process of rehabilitation was done by using adhesive bonded CFRP patch on damaged sites of the pipes with the help of vacuum bagging set-up. The reference optimal parameters to rehabilitate the damaged pipes were considered from the tensile test (tensile shear load) conducted on plates. The rehabilitated pipes were tested under hydrostatic pressure. The two-component structural adhesive (Araldite AW105 and Hardener HV 953U) used in this study has high viscosity. It is not desirable for CFRP composite making and may lead to improper penetration of adhesive

through open pores of the adherent surface. The viscosity of the adhesive was reduced in two ways: addition of a low viscous two-component nonstructural adhesive (Araldite LY-1564 and Aradur-22962) and heating the adhesive. Vacuum pressure, bond length and pre-bond surface preparation of the adherents were considered as parameters to evaluate the bond strength. The roughness of different samples was studied using a 3D microscope. The surface morphology of adherent was studied using scanning electron microscopy (SEM). Based on the experimental studies, it is observed that the optimal conditions of the tensile data of the plates hold good for the rehabilitated pipe under hydrostatic loading. *Adhesives and Adhesive Joints in Industry Applications* Adhesives and Adhesive Joints in Industry Applications

This book presents selected peer reviewed papers from the International Conference on Advanced Production and Industrial Engineering (ICAPIE 2019). It covers a wide range of topics and latest research in mechanical systems engineering, materials engineering, micro-machining, renewable energy, industrial and production engineering, and additive manufacturing. Given the range of topics discussed, this book will be useful for students and researchers primarily working in mechanical and industrial engineering, and energy technologies.

BoD - Books on Demand
Adhesives and Adhesive Joints in Industry Applications
BoD - Books on Demand

Advances in Manufacturing and Industrial Engineering

This book discusses applications of adhesives and adhesive joints in different branches of

industry. The properties of adhesives and adhesive joints, and also the requirements of mechanical properties and chemical and environmental resistance of adhesives and adhesive joints, are very important because proper strength, durability, and time of use are all factors that are dependent on the type of industry. The aim of this book is to present information on the type of adhesives and adhesive joints, in addition to their characteristics, used in different branches of industry. This information should enable scientists, engineers, and designers to acquire knowledge of adhesives and adhesive joints, which could be helpful in selecting the right type of adhesive and adhesive joint to make applications for a particular industry.

Related with Araldite Ly 1564 Aradur 22962 Huntsman Corporation:

[© Araldite Ly 1564 Aradur 22962 Huntsman Corporation Surprise In German Language](#)

[© Araldite Ly 1564 Aradur 22962 Huntsman Corporation Surrender In Recovery Worksheet](#)

[© Araldite Ly 1564 Aradur 22962 Huntsman Corporation Surface Area Nets Worksheet Pdf](#)