

Document Reference:-		NSP/002/002	Document Type:-		Code of Practice		
Version:-	1.2	Date of Issue:-	February 2019		Page	1	of 7

NSP/002/002 - Guidance for the use of 2-Part Cold Pour Re-Enterable Resin

1. Purpose

The purpose of this document is to provide guidance for the use of 2-part cold pour re-enterable resin when used as a filling medium in temporary Low Voltage (LV) jointing applications.

This document supersedes the following documents, all copies of which should be destroyed.

Document Reference	Document Title	Version	Published Date
NSP/002/002	Guidance for the use of 2-Part Cold Pour Re-Enterable Resin	1.1	March 2015

2. Scope

This document applies to all Northern Powergrid (the company) staff and approved contractors working on the Northern Powergrid distribution underground cable network.

The document provides guidance on the use of 2-part cold pour soft set re-enterable resin for use as a temporary filling medium in LV jointing applications primarily for use in fault situations.

This product can be used for both live and dead jointing procedures on the Low Voltage underground cable network.

It is not suitable as a replacement for resin utilised in permanent joints and must be removed from the temporary situation at the earliest opportunity.

Document Reference:-		NSP/002/002	Document Type:-		Code of Practice			
Version:-	1.2	Date of Issue:-	February 2019		Page	2	of	7

2.1. Table of Contents

1. Purpose.....	1
2. Scope	1
2.1. Table of Contents.....	2
3. General	3
3.1. Method	3
4. References	4
4.1. External Documentation	4
4.2. Internal documentation.....	4
4.3. Amendments from Previous Version	4
5. Definitions	4
6. Authority for issue	5
6.1. CDS Assurance	5
6.2. Author	5
6.3. Technical Assurance.....	5
6.4. Approval.....	5
6.5. Authorisation	5
Appendix 1 – Pictures showing method for the application and removal of re-enterable resin	6

Document Reference:-	NSP/002/002	Document Type:-	Code of Practice			
Version:-	1.2	Date of Issue:-	February 2019	Page	3	of 7

3. General

In many LV cable fault situations, supplies are quickly restored to customers by undertaking temporary jointing activities. Once fault location is completed the temporary situation needs to be removed and a permanent repair effected, however, it is recommended that the resin is not left in situ for more than 15 days from installation.

During this period the temporary joint must be adequately insulated and physically protected to prevent both the ingress of moisture and inadvertent electrical contact.

The 2-part cold pour soft set re-enterable resin identified in this document shall be utilised on the Northern Powergrid networks as the temporary joint filling medium.

This resin is mixed and used in the normal way for this type of product, but remains in a firm gel state and does not set hard. This can be subsequently removed by cutting away with an insulated Hepnyf or Hepsaw to permit further jointing works.

The resin is available in 2 litre pack sizes:

- Commodity code 164559 provides 3 x 2ltr pack/tub, and,
- Commodity code 164560 provides a single 2ltr pack.

3.1. Method

The guidance below shall be followed in conjunction with the pictures in Appendix 1 for reference: -

- Select the appropriate joint shell size for the application.
- Carry out jointing procedures as work instructions.
- Prior to fitting the joint shell and utilising the plastic bag the joint components were supplied in, cover the entire joint (2 x lapped layers) with the plastic bag and fix in situ with PVC tape To maintain a moisture seal, the end of the plastic bag shall start and finish at the ends of the sheath-off position on PVC cables and from the earth connection on lead sheath cables, covering the earth connection but leaving the moisture barrier tape exposed (Figure 1).
- To aid subsequent removal of the shell, spray the inside of the joint shell with a "light" coating of lubricant (AC 90 or equivalent).
- Mix, pour and fill the joint shell with re-enterable resin (Figure 2).
- Fit a yellow filling cover(s) or mark the covers with yellow tape to indicate the use of re-enterable resin (Figure 3).
- Ensure any records or JIF's indicate that the joints are of a temporary nature and filled with re-enterable resin.

When access is required into the joint shell:-

- Remove the joint shell (Figure 4).
- With the use of the insulated Hepnyf or Hepsaw, carefully peel / cut away the resin (Figure 5 & 6), remove the plastic bag to expose the cable, cores and connectors etc.
- Remove from cable cores, lead sheath, connectors etc. any residue of re-enterable resin that may have seeped into the joint.
- Complete the permanent jointing works.
- Fit the permanent joint shell and fill with existing 2-part cold pour Polyurethane resin.

Document Reference:-		NSP/002/002	Document Type:-		Code of Practice			
Version:-	1.2	Date of Issue:-	February 2019		Page	4	of	7

4. References

4.1. External Documentation

Reference	Title
None	None

4.2. Internal documentation

Reference	Title
None	None

4.3. Amendments from Previous Version

Reference	Description
Whole Document	Updated to current CDS Document Template, including Information Classification
Whole Document	Document reviewed - no update or content change required – Republished as version 1.2 with a new 3year review period set

5. Definitions

Reference	Title
The company	Northern Powergrid
Low Voltage (LV)	Equal to or below 1,000Volts

Document Reference:-	NSP/002/002	Document Type:-	Code of Practice			
Version:-	1.2	Date of Issue:-	February 2019	Page	5	of 7

6. Authority for issue

6.1. CDS Assurance

I sign to confirm that I have completed and checked this document and I am satisfied with its content and submit it for approval and authorisation.

		Date
Dan Rodrigues	Governance Officer	22/02/2019

6.2. Author

I sign to confirm that I have completed and checked this document and I am satisfied with its content and submit it for approval and authorisation.

Review Period - This document should be reviewed within the following time period.

Standard CDS review of 3 years?	Non Standard Review Period & Reason	
Yes	Period: n/a	Reason: n/a
Should this document be displayed on the Northern Powergrid external website?		Yes
		Date
Paul Hollowood	Policy & Standards Engineer	21/03/2015

6.3. Technical Assurance

I sign to confirm that I am satisfied with all aspects of the content and preparation of this document and submit it for approval and authorisation.

		Date
Andrew Kipling	Senior Policy and Standards Engineer	22/03/2015
Peter Sanderson	Training & Quality Assurance Manager	23/03/15

6.4. Approval

Approval is given for the content of this document.

		Date
Chris Holdsworth	Policy & Standards Manager	23/03/2015

6.5. Authorisation

Authorisation is granted for publication of this document.

		Date
Mike Storey	Operations Assurance Manager	23/03/2015

This document has been reviewed and republished with no content change, other than formatting

Document Reference:- NSP/002/002		Document Type:- Code of Practice	
Version:- 1.2	Date of Issue:- February 2019	Page 6	of 7

Appendix 1 – Pictures showing method for the application and removal of re-enterable resin



Figure 1 - Wrap joint in plastic bag

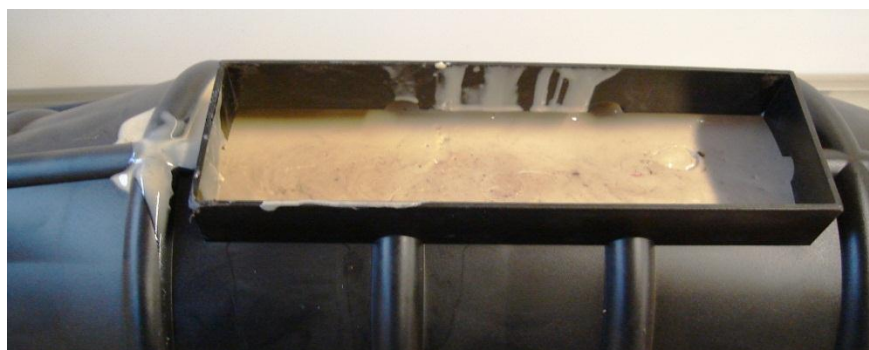


Figure 2 – Fit joint shell and fill joint with re-enterable resin



Figure 3 – Mark shell to indicate use of re-enterable resin



Document Reference:-		NSP/002/002	Document Type:-		Code of Practice			
Version:-	1.2	Date of Issue:-	February 2019		Page	7	of	7

Figure 4 – Re-enterable resin with shell removed



Figure 5 – Carefully cut resin with insulated Hepnyf



Figure 6 – Peel away resin to expose joint